



Department of Veterans Affairs

JAMES A. LOVELL

FEDERAL HEALTH CARE CENTER

3001 GREEN BAY ROAD

NORTH CHICAGO, IL 60064

RENOVATE MEN'S & WOMEN'S LOCKER ROOMS AND REPLACE POOL FILTER PROJECT # 556-13-125

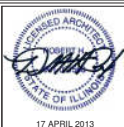
GENERAL		AS-601	DOOR & FINISH SCHEDULE	M-101	MECHANICAL FIRST FLOOR NEW WORK PLAN
GI-001	COVER SHEET	AS-701	MILLWORK	M-102	MECHANICAL ROOF NEW WORK PLAN
GI-002	GENERAL INFORMATION	FIRE PROTECTION		M-301	MECHANICAL DETAILS
ARCHITECTURAL		FPD-100	FIRE PROTECTION DEMOLITION PLAN	M-501	MECHANICAL SCHEDULES
AI-001	ARCHITECTURAL ABBREVIATIONS	FP-101	FIRE PROTECTION NEW WORK PLAN	M-601	CONTROL DIAGRAMS
AD-101	DEMO BASEMENT FLOOR PLAN	FP-301	FIRE PROTECTION SCHEDULE AND DETAILS	ELECTRICAL	
AD-102	DEMO GROUND LEVEL PLAN	PLUMBING		ED-101	ELECTRICAL DEMOLITION PLAN
AD-103	DEMO ROOF PLAN	PD-100	PLUMBING BASEMENT DEMOLITION PLAN	E-100	ELECTRICAL COVER SHEET
AS-002	FIRST FLOOR - LIFE SAFETY PLAN	PD-101	PLUMBING FIRST FLOOR DEMOLITION PLAN	E-101	ELECTRICAL POWER & SYSTEMS NEW WORK PLAN
AS-101	BASEMENT - FLOOR PLAN	P-100	PLUMBING BASEMENT NEW WORK SANITARY PLAN	E-102	ELECTRICAL BASEMENT & ROOF NEW WORK PLAN
AS-102	FIRST FLOOR - FLOOR PLAN	P-101	PLUMBING BASEMENT DOMESTIC WATER NEW WORK PLAN	E-201	ELECTRICAL LIGHTING NEW WORK PLAN
AS-103	ROOF PLAN	P-102	PLUMBING FIRST FLOOR NEW WORK PLAN	E-401	ELECTRICAL SCHEDULES
AS-122	FIRST FLOOR - FLOOR FINISH PLAN	P-301	PLUMBING SCHEDULES	E-501	ELECTRICAL EQUIPMENT SCHEDULE
AS-132	FIRST FLOOR - REFLECTED CEILING PLAN	P-501	PLUMBING DETAILS	POOL FILTRATION	
AS-201	INTERIOR ELEVATIONS	MECHANICAL		XJ-101	POOL FILTER SYSTEM LAYOUT
AS-202	INTERIOR ELEVATIONS	MD-100	MECHANICAL BASEMENT DEMOLITION PLAN	XJ-102	POOL EQUIPMENT DETAILS
AS-301	SECTIONS	MD-101	MECHANICAL FIRST FLOOR DEMOLITION PLAN	XJ-103	POOL FILTER SYSTEM SCHEDULES
AS-401	WALL SECTIONS & DETAILS	M-100	MECHANICAL BASEMENT NEW WORK PLAN		
AS-501	WALL TYPES				

POOL FILTRATION CONSULTANT:



ENTEK ASSOCIATES, INC.

TEL: 361 782 8811
303 SOUTH PUMPHREY ST.
EDNA, TEXAS 77957



CONSULTANTS:



ARCHITECT/ENGINEERS:



Approved: Assistant Director	Approved: Chief of Staff	Approved: Chief, Engineering
Approved: Service Chief	Approved: Service Chief	Approved: Service Chief
Approved: Chief, Bio-Med	Approved: Chief, EMS	Approved: Chief, Infection Control
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Approved: Chief, Safety	Approved: Chief	Approved: Chief

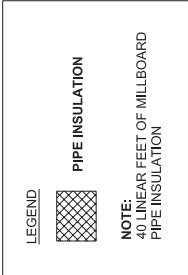
Drawing Title
COVER SHEET
220309 JAMES A. LOVELL FHCC 3001 GREEN BAY ROAD NORTH CHICAGO, IL 60064

Project Name
RENOVATE MEN'S AND WOMEN'S SHOWERS & REPLACE POOL FILTER
Building Number
132
Checked
RHC
Drawn
CAW

Project Number
556-13-125
Date
17 APRIL 2013
Drawing Number
GI-001
Design
dl



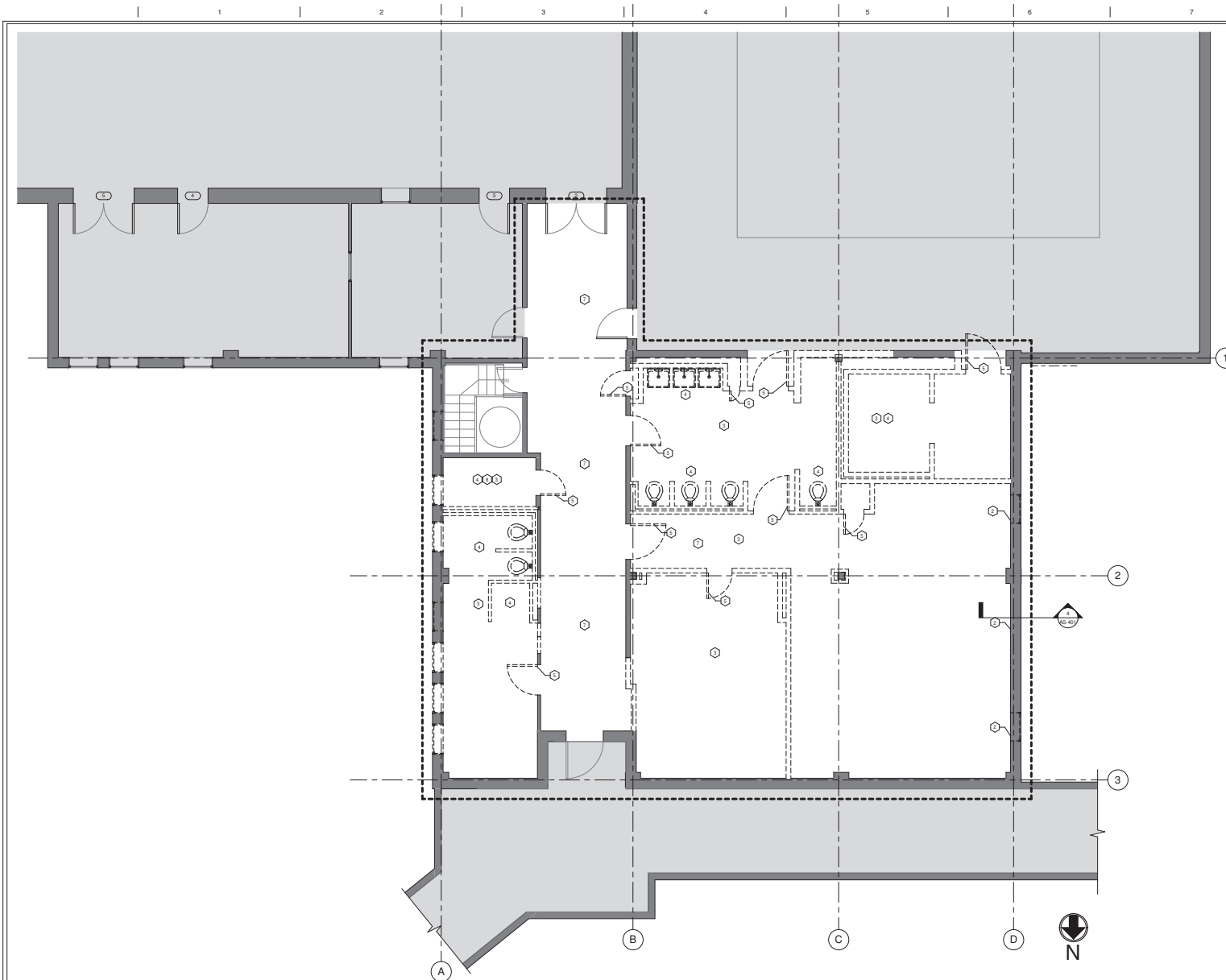
DISCIPLINE REFERENCES DRAWINGS FOR THE FOLLOWING DISCIPLINES ARE CONTAINED IN THE DOCUMENT. THE DISCIPLINES ARE IDENTIFIED BY THE REFERENCE WHICH IS INCORPORATED INTO THE SHEET TITLE. ASB FP P M E GENERAL INFORMATION ASBESTOS ABATEMENT ARCHITECTURAL FIRE PROTECTION PLUMBING MECHANICAL ELECTRICAL TECHNOLOGY		ARCHITECTURAL FLOOR PLAN SYMBOLS —+— CENTER LINE —+— ELEVATION INDICATOR - - - - - CENTER LINE INDICATOR - - - - - DEMOLITION LINE - - - - - EXISTING TO REMAIN LINE - - - - - FEATURES ABOVE LINE INDICATOR - - - - - CONSTRUCTION LIMITS —+— BREAK, ROUND (USER DEFINES SIZE) —+— BREAK, STRAIGHT (SEE SECTION INDICATORS, BUILDING WITH BREAK STANDARDS) —+— DETAIL INDICATOR —+— DETAIL INDICATOR —+— DETAIL REFERENCE —+— DETAIL DIRECTION —+— DETAIL PAGE NUMBER —+— DETAIL PAGE NUMBER —+— WALL SECTION INDICATOR —+— DETAIL PAGE NUMBER —+— DETAIL PAGE NUMBER —+— BUILDING SECTION INDICATOR —+— DETAIL DIRECTION —+— DETAIL PAGE NUMBER —+— DETAIL PAGE NUMBER —+— PLAN NOTE —+— KEYNOTE / WALL TYPE / PARTITION TYPE —+— ROOM TITLE —+— ROOM NAME —+— ROOM NUMBER —+— GROSS SF FROM INTERIOR FINISH (IF APPLICABLE) —+— COLUMN GRID —+— NORTH ARROW —+— REVISION NUMBER AND EXTENT —+— REVISION NUMBER - SEE REVISION HISTORY ON THE TITLE BLOCK OF EACH SHEET —+— EXTENT OF CURRENT REVISION —+— KEYED NOTE MARK - SEE CORRESPONDING NUMBERED KEY NOTE ON SHEET WHERE REFERENCE OCCURS MATERIAL GRAPHICS CONCRETE EXISTING MASONRY GYP BD BUILDING INTERIOR EXISTING TO REMAIN		GENERAL NOTES 1. UNLESS NOTED AS EXISTING, ALL MATERIALS, EQUIPMENT, MANUFACTURED ITEMS AND ASSEMBLIES INCORPORATED INTO THE WORK SHALL BE NEW. 2. UNLESS NOTED TO BE REMOVED AND DISPOSED, ALL EXISTING ITEMS ARE TO REMAIN. THEY SHALL BE PROTECTED FROM DAMAGE DUE TO CONSTRUCTION ACTIVITIES. ANY EXISTING ITEMS TO REMAIN THAT BECOME DAMAGED DUE TO CONSTRUCTION ACTIVITIES SHALL BE REPAIRED OR REPLACED TO MATCH EXISTING AT NO ADDITIONAL COST TO THE OWNER. 3. NOTATIONS FOR ITEMS OF WORK APPLY TO EACH AND EVERY GRAPHICAL INDICATION SHOWN ON THE DRAWINGS, WHETHER OR NOT NOTED. 4. ALL ITEMS NOTED TO HAVE PAINT FINISH SHALL BE THOROUGHLY CLEANED AND PROPERLY PREPARED IN ACCORDANCE WITH THE SPECIFICATIONS PRIOR TO THE APPLICATION OF PRIMER AND PAINT. 5. THE CONTRACTOR SHALL THOROUGHLY FAMILIARIZE HIMSELF WITH THE MECHANICAL, ELECTRICAL, AND PLUMBING WORK AND SATISFY THE REQUIREMENTS FOR SUPPORT, FLOOR, WALL AND ROOF OPENINGS, FLASHINGS AND CURBS ETC. THE ARCHITECT SHALL BE NOTIFIED OF CONFLICTS OR DISCREPANCIES PRIOR TO COMMENCEMENT OF CONSTRUCTION. 6. CONTRACTOR TO REPLACE & ACCURATELY LOCATE ALL EXISTING SIGNAGE AND LABELS NOTING RATED WALL ASSEMBLIES AND SMOKE PARTITIONS 7. THE GENERAL CONTRACTOR SHALL VISIT THE SITE, VERIFY FIELD CONDITIONS AND CAREFULLY COMPARE SUCH FIELD CONDITIONS AND OTHER INFORMATION KNOWN TO THE CONTRACTOR WITH CONTRACT DOCUMENTS. 8. THE GENERAL CONTRACTOR SHALL REPORT ANY UNRESOLVED FIELD CONDITIONS, ERRORS, INCONSISTENCIES, OR OMISSIONS DISCOVERED AT ANY TIME DURING THE WORK TO THE ARCHITECT FOR DISCOVERY. THE CONTRACTOR SHALL IMMEDIATELY CONTACT THE ARCHITECT AND PROJECT ENGINEER FOR CLARIFICATION BEFORE PROCEEDING, CONTINUING WITH THAT PORTION OF THE WORK OR ANY PORTION RELATED THERE TO. 9. ALL WORK SHALL CONFORM TO ALL APPLICABLE CODES AND STANDARDS INCLUDING THE INTERNATIONAL BUILDING CODE 2006 EDITION AND NFPA 101 2003 EDITION. 10. THE GENERAL CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER AND THE ARCHITECT OF ANY DISCREPANCIES BETWEEN THE DRAWINGS, NOTES AND ACTUAL FIELD CONDITIONS BEFORE BIDDING AND COMMENCING ANY WORK, AND REQUEST CLARIFICATION IN WRITING. 11. WHEN UNANTICIPATED MECHANICAL, ELECTRICAL OR STRUCTURAL ELEMENTS THAT CONFLICT WITH THE INTENDED FUNCTION OR DESIGN ARE ENCOUNTERED, INVESTIGATE AND MEASURE THE NATURE AND EXTENT OF THE CONFLICT. PROMPTLY SUBMIT A WRITTEN REPORT TO THE ARCHITECT AND PROJECT ENGINEER. 12. WHERE MOUNTING HEIGHTS ARE NOT INDICATED, INSTALL COMPONENTS USING MANUFACTURERS OR INDUSTRY STANDARDS. WHERE STANDARDS DO NOT EXIST, NOTIFY THE ARCHITECT FOR CLARIFICATION. 13. CONTRACTOR SHALL NOT BARRICADE / BARRIER ANY EXIT TO OR FROM THIS AREA. CONTRACTOR SHALL MAINTAIN EXIT TO EXTERIOR DURING THE WORK PROCESS 14. PROVIDE ACCESS TO EACH PHASE OF WORK AS DIRECTED BY THE PROJECT ENGINEER. SECURE EACH ACCESS POINT AS SPECIFIED AND DIRECTED BY THE PROJECT ENGINEER. PROVIDE WALK-OFF MATS TO MEET FACILITY INFECTION CONTROL GUIDELINES AT EACH ACCESS POINT. 15. ALL EXISTING WALL MOUNTED ITEMS AND DEVICES ARE TO BE REMOVED PRIOR TO DEMOLITION WORK. FULLY REFINISHED, AND REINSTALLED IN THE NEW WALL ASSEMBLY. LOCATION TO BE VERIFIED BY RESIDENT ENGINEER. ITEMS MAY INCLUDE: MAGNETIC HOLD-OPENS, DOOR STOPS, HAND SANITIZER DISPENSERS, MIRRORS, FIRE STROBES, SWITCHES, ELEVATOR DIRECTION SIGNAL, ELECTRIC COVER PLATES, FIRE ALARM PULL BOX, ELECTRIC OUTLETS, SIGNAGE, BULLETIN BOARDS, DISPLAY CASE, CARD READER, CLOCK, DATA OUTLET, PUSH BUTTON, FIRE CONTROL BOX, MEDICAL GAS PANEL, PHONE, PORTABLE X-RAY HOOK UP, ROOM SIGNAGE		DIMENSIONING CONVENTIONS 1. EXCEPT WHERE DIRECTED TO PLACE ITEMS OF THE WORK AT THE "APPROXIMATE LOCATION SHOWN," DO NOT SCALE DRAWINGS FOR DIMENSIONAL INFORMATION. 2. ALL ELEMENTS OF THE DOCUMENTS MAY NOT BE DRAWN TO EXACT SCALE. ALL DIMENSIONS REQUESTED ARE SHOWN OR MAY BE DERIVED FROM THOSE SHOWN OR NOTED ON THE FLOOR PLANS, DETAIL PLANS, ELEVATIONS, SECTIONS, SCHEDULES, CONFIGURATION DETAILS, AND SPECIFICATIONS. SEE THE NOTES BELOW AND SYMBOLS FOR DIMENSIONING CONVENTIONS USED ON THIS PROJECT. 3. EXCEPT WHERE SPECIFICALLY NOTED TO THE CONTRARY, ALL DIMENSIONS SHOWN ON THE ARCHITECTURAL DRAWINGS CONFORM TO THE FOLLOWING CONVENTIONS. A. DIMENSIONS UTILIZING THE "CENTERLINE" SYMBOL ARE MEASURED TO: <ul style="list-style-type: none">CENTERLINE OF PARTITION ASSEMBLY (EXCLUSIVE OF ANY APPLIED FINISHES HAVING THICKNESS WHICH MAY BE ADDED TO SUCH WALLS) AT PARTITIONS FRAMED WITH METAL STUDS. REFER TO "PARTITION SCHEDULE" TO DETERMINE THICKNESS OF EACH PARTITION TYPE.CENTERLINE OF DOOR, WINDOW, OR LOUVER OPENING.CENTERLINE OF OTHER FEATURES AS INDICATED. B. DIMENSIONS UTILIZING THE "FACE OF" SYMBOL ARE MEASURED TO: <ul style="list-style-type: none">FACE OF PARTITION ASSEMBLY (EXCLUSIVE OF ANY APPLIED FINISHES HAVING THICKNESS WHICH MAY BE ADDED TO SUCH WALL) AS DEFINED BY THE PARTITION SCHEDULE. UNLESS NOTED AS A "FACE OF FINISH" OR "CLEAR" DIMENSION (SEE NOTE "B" BELOW), DIMENSIONS ARE NOT MEASURED TO THE FACE OF APPLIED FINISH. REFER TO THE "PARTITION SCHEDULE" TO DETERMINE THE THICKNESS OF EACH PARTITION TYPE. C. WHERE "EQUAL" DIMENSIONS ARE USED ON REFLECTED CEILING PLANS TO LOCATE CEILING GRID WORK POINTS, MEASURE DIMENSIONS TO: <ul style="list-style-type: none">EDGE OF THE INDICATED CEILING AT THE FACE OF THE ADJACENT APPLIED FINISH MEASURED AT THE PLANE OF THE CEILING.CAUTION: DUE TO THE POSSIBLE APPLICATION OF APPLIED FINISHES - THICKNESS OF WHICH MAY VARY BETWEEN FLOOR AND CEILING AND IS NOT ACCOUNTED FOR (EXCEPT AS INDICATED BY "FOF" OR "CLEAR") BY THE DIMENSION SHOWN ON THE FLOOR PLANS - THE CONTRACTOR MUST ADJUST AS NECESSARY, THE FLOOR PLAN DIMENSIONS TO REFLECT THE ACTUAL DIMENSIONS FOUND AT PLANE OF THE CEILING. 4. WHERE WALLS AND/OR PARTITIONS OF UNEQUAL THICKNESS ABUT, ALIGN EXPOSED FACES, UNLESS OTHERWISE NOTED. 5. WHERE OPENINGS IN WALLS (SUCH AS INTERIOR WINDOWS OR DOORS) ARE NOT DIMENSIONED BUT SHOWN AS BEING IN THE CENTER OF A GIVEN WALL SURFACE, LOCATE OPENINGS AS GRAPHICALLY REPRESENTED.																																															
LOCATION MAP NTS																																																					
PROJECT INFORMATION OCCUPANCY: GROUP I-2 TYPE OF CONSTRUCTION: UNPROTECTED TYPE II FULLY SPRINKLED PROJECT AREA: 2,444 GSF																																																					
CONSTRUCTION DRAWINGS																																																					
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9

one foot

one eighth inch = one foot



GRAPHIC LEGEND	
	AREA IN CONTRACT
	AREA NOT IN CONTRACT
	DASHED LINE DENOTES ITEM TO BE DEMOLISHED
	SOLID LINE DENOTES ITEM TO REMAIN
	EXISTING WALLS TO BE REMOVED
	EXISTING WALLS TO REMAIN
	EXISTING DOOR TO BE REMOVED
	EXISTING DOOR TO REMAIN
	DEMOLITION PLAN NOTE
	LIMITS OF CONSTRUCTION

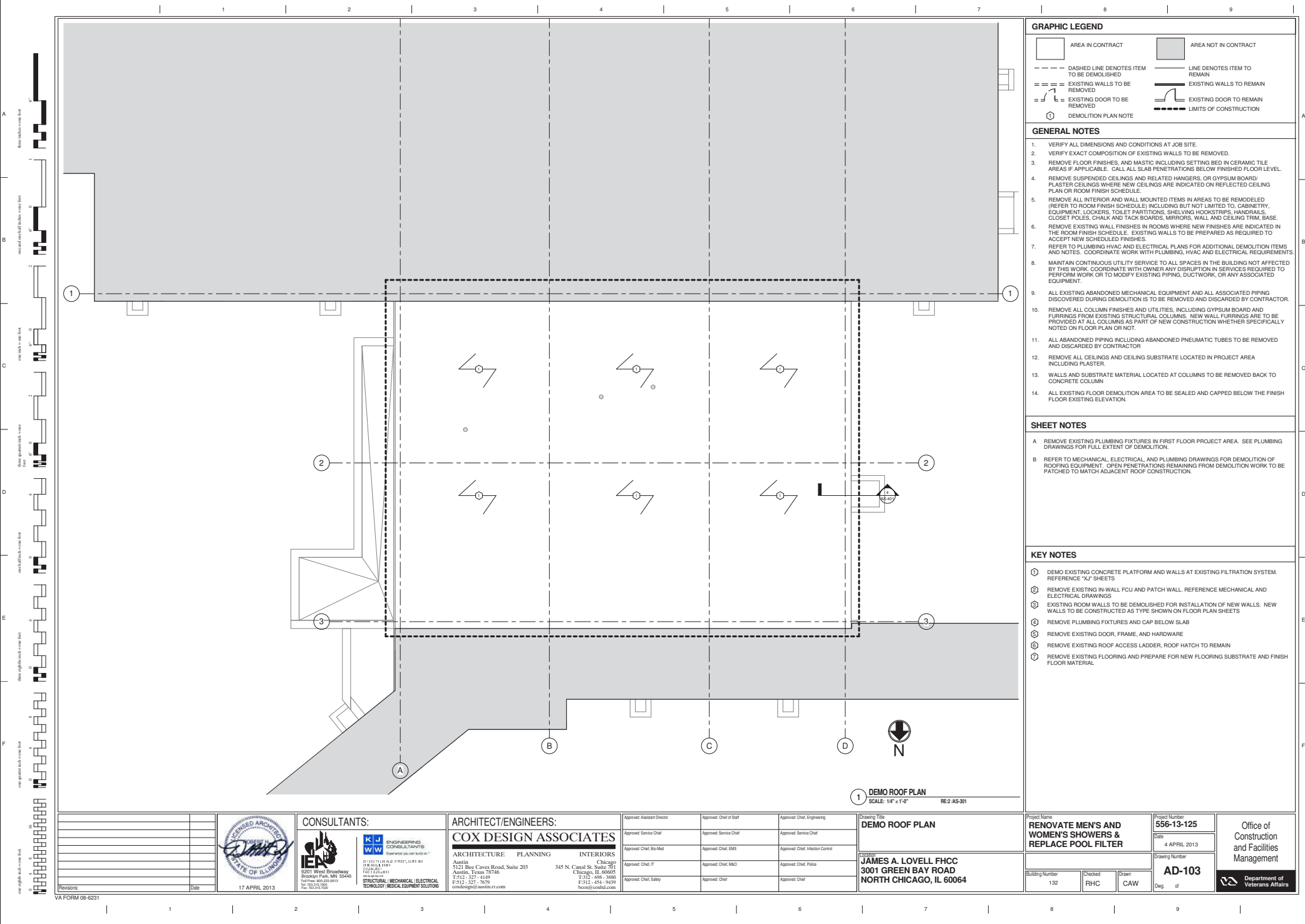
- GENERAL NOTES**
1. VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE.
 2. VERIFY EXACT COMPOSITION OF EXISTING WALLS TO BE REMOVED.
 3. REMOVE FLOOR FINISHES, AND MASTIC INCLUDING SETTING BED IN CERAMIC TILE AREAS IF APPLICABLE. CALL ALL SLAB PENETRATIONS BELOW FINISHED FLOOR LEVEL.
 4. REMOVE SUSPENDED CEILINGS AND RELATED HANGERS, OR GYPSUM BOARD/ PLASTER CEILINGS WHERE NEW CEILINGS ARE INDICATED ON REFLECTED CEILING PLAN OR ROOM FINISH SCHEDULE.
 5. REMOVE ALL INTERIOR AND WALL MOUNTED ITEMS IN AREAS TO BE REMODELED (REFER TO ROOM FINISH SCHEDULE) INCLUDING BUT NOT LIMITED TO, CABINETS, EQUIPMENT, LOCKERS, TOILET PARTITIONS, SHELVING, HOOKSTIPS, HANDRAILS, CLOSET POLES, CHALK AND TACK BOARDS, MIRRORS, WALL AND CEILING TRIM, BASE.
 6. REMOVE EXISTING WALL FINISHES IN ROOMS WHERE NEW FINISHES ARE INDICATED IN THE ROOM FINISH SCHEDULE. EXISTING WALLS TO BE PREPARED AS REQUIRED TO ACCEPT NEW SCHEDULED FINISHES.
 7. REFER TO PLUMBING HVAC AND ELECTRICAL PLANS FOR ADDITIONAL DEMOLITION ITEMS AND NOTES. COORDINATE WORK WITH PLUMBING, HVAC AND ELECTRICAL REQUIREMENTS.
 8. MAINTAIN CONTINUOUS UTILITY SERVICE TO ALL SPACES IN THE BUILDING NOT AFFECTED BY THIS WORK. COORDINATE WITH OWNER ANY DISRUPTION IN SERVICES REQUIRED TO PERFORM WORK OR TO MODIFY EXISTING PIPING, DUCTWORK, OR ANY ASSOCIATED EQUIPMENT.
 9. ALL EXISTING ABANDONED MECHANICAL EQUIPMENT AND ALL ASSOCIATED PIPING DISCOVERED DURING DEMOLITION IS TO BE REMOVED AND DISCARDED BY CONTRACTOR.
 10. REMOVE ALL COLUMN FINISHES AND UTILITIES, INCLUDING GYPSUM BOARD AND FURRINGS FROM EXISTING STRUCTURAL COLUMNS. NEW WALL FURRINGS ARE TO BE PROVIDED AT ALL COLUMNS AS PART OF NEW CONSTRUCTION WHETHER SPECIFICALLY NOTED ON FLOOR PLAN OR NOT.
 11. ALL ABANDONED PIPING INCLUDING ABANDONED PNEUMATIC TUBES TO BE REMOVED AND DISCARDED BY CONTRACTOR.
 12. REMOVE ALL CEILINGS AND CEILING SUBSTRATE LOCATED IN PROJECT AREA INCLUDING PLASTER.
 13. WALLS AND SUBSTRATE MATERIAL LOCATED AT COLUMNS TO BE REMOVED BACK TO CONCRETE COLUMN.
 14. ALL EXISTING FLOOR DEMOLITION AREA TO BE SEALED AND CAPPED BELOW THE FINISH FLOOR EXISTING ELEVATION.

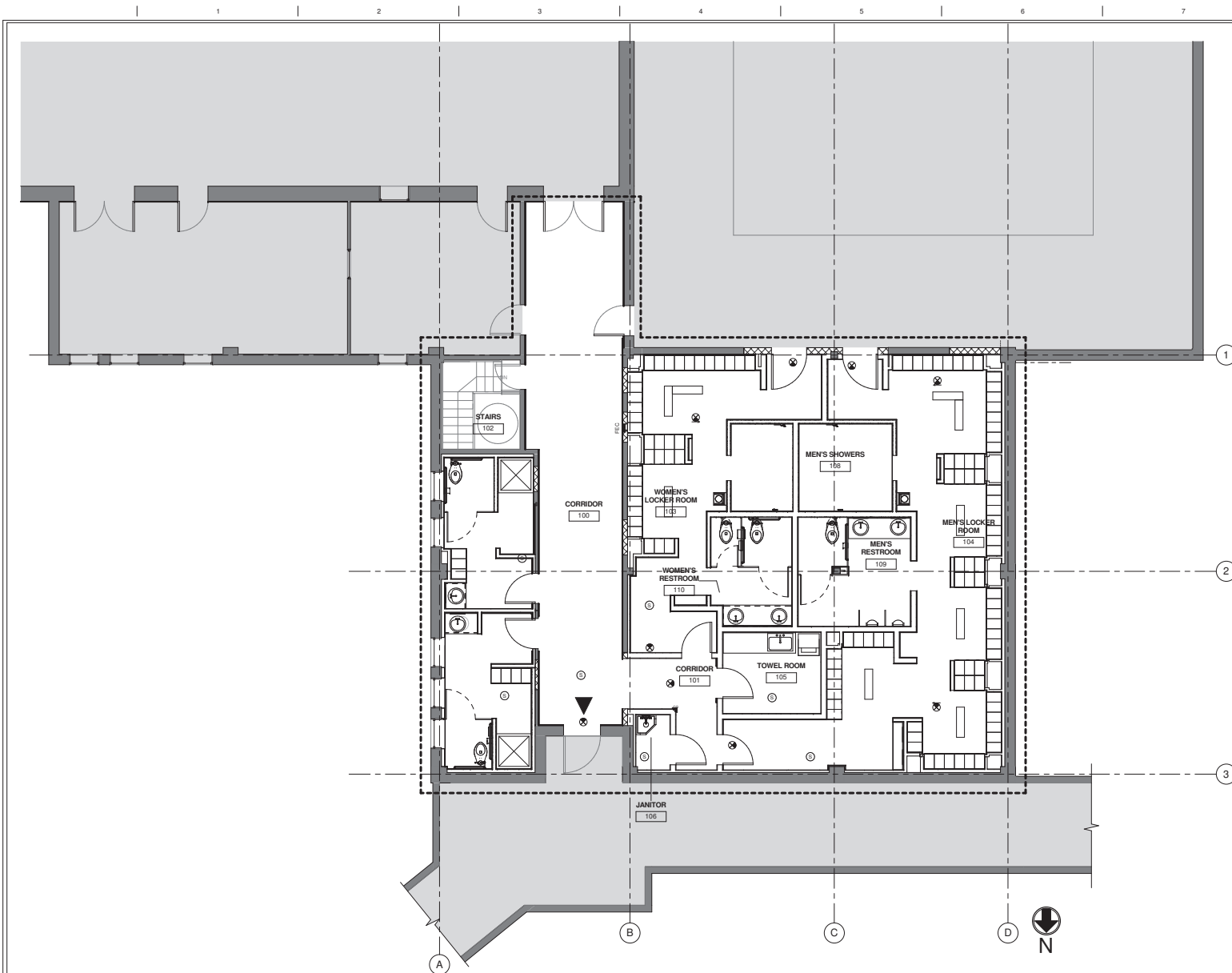
- SHEET NOTES**
- A REMOVE EXISTING PLUMBING FIXTURES IN FIRST FLOOR PROJECT AREA. SEE PLUMBING DRAWINGS FOR FULL EXTENT OF DEMOLITION.
- B REFER TO MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS FOR DEMOLITION OF ROOFING EQUIPMENT. OPEN PENETRATIONS REMAINING FROM DEMOLITION WORK TO BE PATCHED TO MATCH ADJACENT ROOF CONSTRUCTION.

- KEY NOTES**
- 1 DEMO EXISTING CONCRETE PLATFORM AND WALLS AT EXISTING FILTRATION SYSTEM. REFERENCE "X"Z SHEETS
 - 2 REMOVE EXISTING IN-WALL FCU AND PATCH WALL. REFERENCE MECHANICAL AND ELECTRICAL DRAWINGS
 - 3 EXISTING ROOM WALLS TO BE DEMOLISHED FOR INSTALLATION OF NEW WALLS. NEW WALLS TO BE CONSTRUCTED AS TYPE SHOWN ON FLOOR PLAN SHEETS
 - 4 REMOVE PLUMBING FIXTURES AND CAP BELOW SLAB
 - 5 REMOVE EXISTING DOOR, FRAME, AND HARDWARE
 - 6 REMOVE EXISTING ROOF ACCESS LADDER, ROOF HATCH TO REMAIN
 - 7 REMOVE EXISTING FLOORING AND PREPARE FOR NEW FLOORING SUBSTRATE AND FINISH FLOOR MATERIAL

GROUND LEVEL -
DEMOLITION
SCALE: 1/4" = 1'-0"
RE-16 / AS-202

		CONSULTANTS: KJWW ENGINEERING CONSULTANTS 21201 TAYLOR STREET, SUITE 101 CHICAGO, IL 60648 TEL: 773.231.1000 FAX: 773.231.1001		ARCHITECT/ENGINEERS: COX DESIGN ASSOCIATES ARCHITECTURE PLANNING INTERIORS Austin 5121 Bee Caves Road, Suite 203 Austin, Texas 78746 Chicago 345 N. Canal St. Suite 301 Chicago, IL 60605 Tel: 312.327.4140 Fax: 312.327.7079 cda@coxdesign.com		<table><tr><td>Approved: Assistant Director</td><td>Approved: Chief of Staff</td><td>Approved: Chief, Engineering</td></tr><tr><td>Approved: Service Chief</td><td>Approved: Service Chief</td><td>Approved: Service Chief</td></tr><tr><td>Approved: Chief, Bio-Med</td><td>Approved: Chief, EMS</td><td>Approved: Chief, Infection Control</td></tr><tr><td>Approved: Chief, IT</td><td>Approved: Chief, MRO</td><td>Approved: Chief, Police</td></tr><tr><td>Approved: Chief, Safety</td><td>Approved: Chief</td><td>Approved: Chief</td></tr></table>		Approved: Assistant Director	Approved: Chief of Staff	Approved: Chief, Engineering	Approved: Service Chief	Approved: Service Chief	Approved: Service Chief	Approved: Chief, Bio-Med	Approved: Chief, EMS	Approved: Chief, Infection Control	Approved: Chief, IT	Approved: Chief, MRO	Approved: Chief, Police	Approved: Chief, Safety	Approved: Chief	Approved: Chief	<table><tr><td colspan="2">Drawing Title DEMO GROUND LEVEL PLAN</td></tr><tr><td colspan="2">Drawing Number AD-102</td></tr><tr><td colspan="2">Project Name RENOVATE MEN'S AND WOMEN'S SHOWERS & REPLACE POOL FILTER</td></tr><tr><td colspan="2">Project Number 556-13-125</td></tr><tr><td colspan="2">Date 4 APRIL 2013</td></tr><tr><td colspan="2">Drawing Number AD-102</td></tr><tr><td colspan="2">Project Location JAMES A. LOVELL FHCC 3001 GREEN BAY ROAD NORTH CHICAGO, IL 60064</td></tr></table>		Drawing Title DEMO GROUND LEVEL PLAN		Drawing Number AD-102		Project Name RENOVATE MEN'S AND WOMEN'S SHOWERS & REPLACE POOL FILTER		Project Number 556-13-125		Date 4 APRIL 2013		Drawing Number AD-102		Project Location JAMES A. LOVELL FHCC 3001 GREEN BAY ROAD NORTH CHICAGO, IL 60064		<table><tr><td>Building Number 132</td><td>Checked RHC</td><td>Drawn CAW</td></tr><tr><td colspan="3">Date 4/1/13</td></tr></table>		Building Number 132	Checked RHC	Drawn CAW	Date 4/1/13			<table><tr><td colspan="2">Office of Construction and Facilities Management</td></tr><tr><td colspan="2">Department of Veterans Affairs</td></tr></table>		Office of Construction and Facilities Management		Department of Veterans Affairs	
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Date 4 APRIL 2013																																																				
Drawing Number AD-102																																																				
Project Location JAMES A. LOVELL FHCC 3001 GREEN BAY ROAD NORTH CHICAGO, IL 60064																																																				
Building Number 132	Checked RHC	Drawn CAW																																																		
Date 4/1/13																																																				
Office of Construction and Facilities Management																																																				
Department of Veterans Affairs																																																				





GRAPHIC LEGEND

- AREA IN CONTRACT
- AREA NOT IN CONTRACT
- EXIT
- RECESSED FIRE EXTINGUISHER CABINET AND FIRE EXTINGUISHER
- DOUBLE SIDED EXIT SIGNAGE CEILING MOUNTED
- DOUBLE SIDED EXIT SIGNAGE CEILING MOUNTED WITH DIRECTIONAL ARROWS
- SINGLE SIDED EXIT SIGNAGE CEILING MOUNTED
- SINGLE SIDED EXIT SIGNAGE CEILING MOUNTED WITH DIRECTIONAL ARROWS
- CEILING MOUNTED FIRE ALARM NOTIFICATION SPEAKER
- CEILING MOUNTED HEAT DETECTOR
- STROBE NOTIFICATION
- CEILING SMOKE DETECTOR
- COMBINATION VOICE EVACUATION SPEAKER / STROBE UNIT
- TRAVEL DISTANCE
- MEASURED DISTANCE
- DOOR 33 0.2 165 157
- ACTUAL PEOPLE
- CAPACITY PEOPLE
- EXIT WIDTH
- EGRESS WIDTH
- EGRESS COMPONENT
- ONE HOUR RATING, 45 MINUTE "C" LABEL DOORS
- ONE HOUR RATED SMOKE BARRIER, 20 MINUTE DOORS
- TWO HOUR RATING, 90 MINUTE "B" LABEL DOORS
- TWO HOUR RATED SMOKE BARRIER, 90 MINUTE DOORS
- THREE HOUR RATING
- SMOKE TIGHT CORRIDOR WALL CONSTRUCTION SHALL BE SMOKE TIGHT, WALL IS NOT RATED

SHEET NOTES

LIFE SAFETY PLAN - NOTES

- A. MAINTAIN FIRE EXTINGUISHER LOCATIONS DURING CONSTRUCTION
- B. MAINTAIN RATING ON SHAFTS DURING CONSTRUCTION
- C. PATCH HOLES IN FLOOR DURING CONSTRUCTION TO MAINTAIN 2HR RATING
- D. ALL EXIT DOORS TO REMAIN UNLOCKED DURING CONSTRUCTION

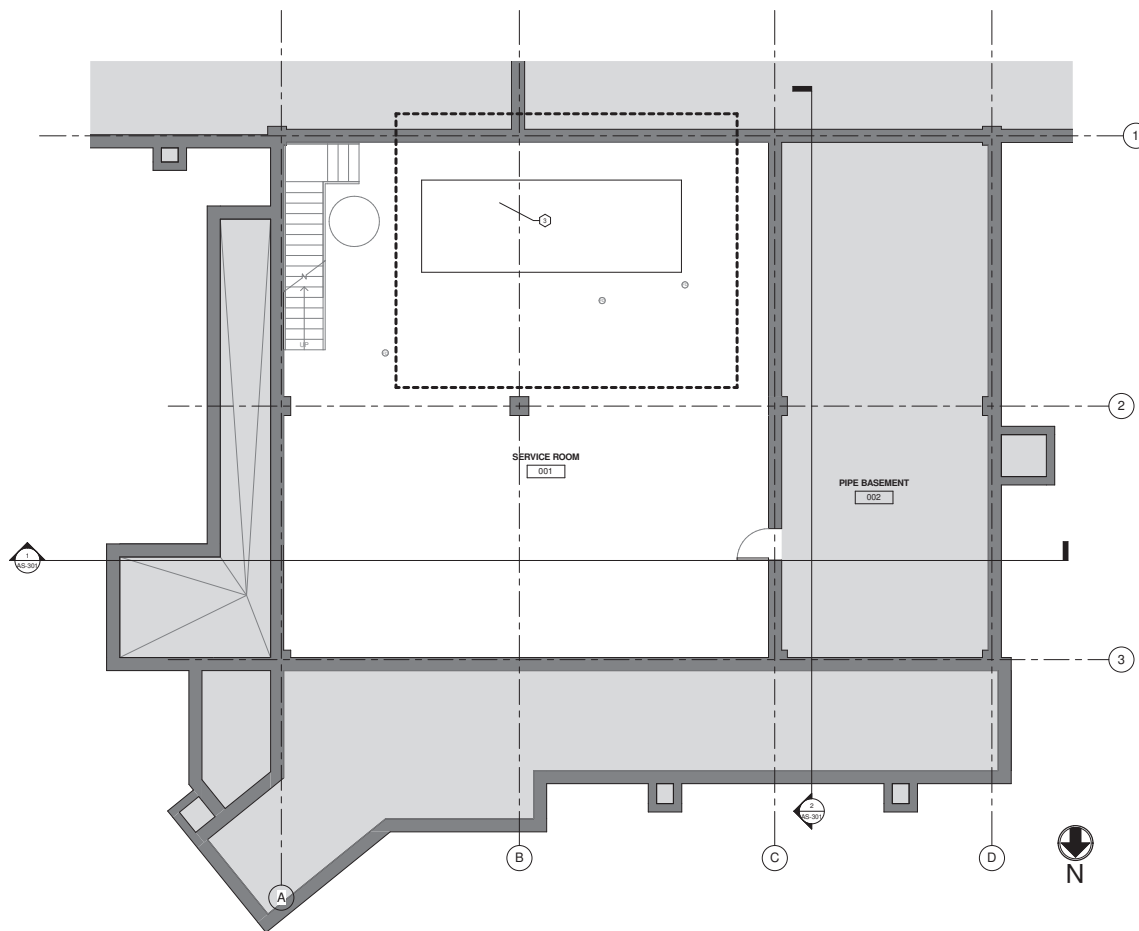
CODE SUMMARY

INTERNATIONAL BUILDING CODE
NFPA 101 LIFE SAFETY CODE (LSC)
INTERNATIONAL MECHANICAL CODE
NATIONAL ELECTRICAL CODE
UNIFORM PLUMBING CODE
INTERNATIONAL ENERGY CONSERVATION CODE
NATIONAL FIRE CODE
FIRE PROTECTION DESIGN GUIDES, USDOA
FIRE PROTECTION SYSTEMS:
-WET-PIPE SPRINKLER SYSTEM
-FIRE ALARM NOTIFICATION SYSTEM
-AUTOMATIC SMOKE DETECTION
BUILDING CONSTRUCTION TYPE:
-TYPE IIA

GROUND LEVEL - LIFE SAFETY PLAN
SCALE: 1/4" = 1'-0"

RE:16 AS-202














		CONSULTANTS: KJWW ENGINEERING CONSULTANTS 2100 N. LAKE STREET, SUITE 201 CHICAGO, IL 60614 TEL: 312.231.1000 FAX: 312.231.1001 WWW.KJWW.COM		ARCHITECT/ENGINEERS: COX DESIGN ASSOCIATES ARCHITECTURE PLANNING INTERIORS Austin 5121 Bee Caves Road, Suite 203 Austin, Texas 78746 T: 512.327-4149 F: 512.327-7079 coxdesign@austin.rr.com Chicago 345 N. Canal St. Suite 701 Chicago, IL 60605 T: 312.499-3800 F: 312.424-9439 hcox@coxdesign.com		Approved: Assistant Director Approved: Service Chief Approved: Chief Bio-Med Approved: Chief IT Approved: Chief Safety		Approved: Chief of Staff Approved: Service Chief Approved: Chief EMS Approved: Chief MBO Approved: Chief		Approved: Chief, Engineering Approved: Service Chief Approved: Chief, Infection Control Approved: Chief, Police Approved: Chief		Drawing Title FIRST FLOOR - LIFE SAFETY PLAN C22309 JAMES A. LOVELL FHCC 3001 GREEN BAY ROAD NORTH CHICAGO, IL 60064		Project Name RENOVATE MEN'S AND WOMEN'S SHOWERS & REPLACE POOL FILTER		Project Number 556-13-125 ISS 4 APRIL 2013 Drawing Number AS-002		Office of Construction and Facilities Management Department of Veterans Affairs	
Revisions:		Date 17 APRIL 2013										Building Number 132		Checked RHC		Drawn CAW		Date 4 APRIL 2013	



1 BASEMENT PLAN
SCALE: 1/4" = 1'-0" RE:1 /AS-301

GRAPHIC LEGEND

FLOOR PLAN - SYMBOLS LEGEND

	AREA IN CONTRACT		AREA NOT IN CONTRACT
	CONSTRUCTION LIMITS		MILLWORK PROVIDED AND INSTALLED BY CONTRACTOR
	EXISTING WALL TO REMAIN		NEW CMU WALL
	NEW WALL / PARTITION		CORNERGUARD
	IN-WALL RIGID INSULATION WITH MAXIMUM THICKNESS TO FIT WALL CAVITY		WALL TYPE
	NEW DOOR		FLOOR DRAIN
	RECESSED FIRE FIXTURE/USER CABINET		

SHEET NOTES

- A. DIMENSIONS ON FLOOR PLAN ARE BASED ON FACE OF FINISHED WALL TO FACE OF FINISHED WALL (NOMINAL)
- B. VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE.
- C. MAINTAIN CONTINUOUS UTILITY SERVICE TO ALL SPACES IN THE BUILDING NOT AFFECTED BY WORK. COORDINATE WITH OWNER AND DISRUPTION IN SERVICES REQUIRED TO PERFORM WORK OR TO MODIFY EXISTING PIPING, DUCTWORK, OR ANY ASSOCIATED EQUIPMENT.
- D. REFER TO SHEET 1-AS601 FOR ROOM FINISH SCHEDULE AND NOTES. REFER TO SHEET 1-AS602 FOR DOOR SCHEDULES, DOOR TYPES, AND NOTES.
- F. IN-WALL SUPPORT BLOCKING TO BE PROVIDED AT ALL DOOR WALL STOP LOCATIONS PER DETAIL 511-417.
- G. MULTIPLE SLEEVE OR APPROVAL, EQUAL REQUIRED FOR CONDUIT AND PIPING PENETRATIONS THROUGH FIRE RATED WALLS.
- H. ALL WEAT AREAS TO RECEIVE NEW TILE FLOORING AS INDICATED ON THE ROOM FINISH SCHEDULE AND ARE TO BE RECONSTRUCTED WITH TYPICAL TROOPING MEMBRANE.
- I. DEMOLITION AS REQUIRED FOR ABATEMENT IS TO BE RECONSTRUCTED BY CONTRACTOR AS REQUIRED TO MATCH ADJACENT CONDITIONS.
- J. EXISTING FLOOR DEMOLITION AREA TO BE SEALED AND CAPPED BELOW THE FINISH FLOOR FINISHING ELEVATION.








KEY NOTES

GYPSUM BOARD PARTITION SCHEDULE

SOUND PARTITION

- 3" 5/8" STEEL STUDS @ 16" O.C. W/ 3" SOUND ATTENUATION INSULATION & 5/8" MOISTURE RESISTANT VAPOR BD @ EACH FACE. PROVIDE 1/8" RATED UL # 0485 DESIGN WHERE 1/8" CONSTRUCTION IS INDICATED ON PLANS - SEE LIFE SAFETY PLANS
- 5.5" CMU WALL
- 7.5" CMU WALL
- 12" CMU WALL
- 3" 5/8" STEEL STUDS @ 16" O.C. W/ 3" SOUND ATTENUATION INSULATION & 1/2" CEMENTIOUS BD @ EACH FACE
- 3" 5/8" STEEL STUDS @ 16" O.C. W/ 3" SOUND ATTENUATION INSULATION & 5/8" CEMENTIOUS BD @ EACH FACE

FURRING

- | | | | |
|---|---|---|---|
|  | DIRECT BONDED 5/8" MOISTURE RESISTANT GYP BD |  | 3 5/8" STEEL STUDS @ 16" OC W/ 3" SOUND ATTENUATION INSULATION & 5/8" MOISTURE RESISTANT GYP BD |
|  | 1 5/8" STEEL STUDS @ 16" OC W/ 5/8" MOISTURE RESISTANT GYP BD |  | 6" STEEL STUDS @ 16" OC W/ 5/8" MOISTURE RESISTANT GYP BD |
|  | 2 1/2" STEEL STUDS @ 16" OC W/ 5/8" MOISTURE RESISTANT GYP BD |  | 7/8" STEEL HAT CHANNEL @ 16" OC W/ 5/8" MOISTURE RESISTANT GYP BD |
|  | 3 5/8" STEEL STUDS @ 16" OC W/ 5/8" MOISTURE RESISTANT GYP BD | | |

TILING

- T1** FIELD WALL TILE (CT-1) **T2** FIELD WALL TILE (CT-2)

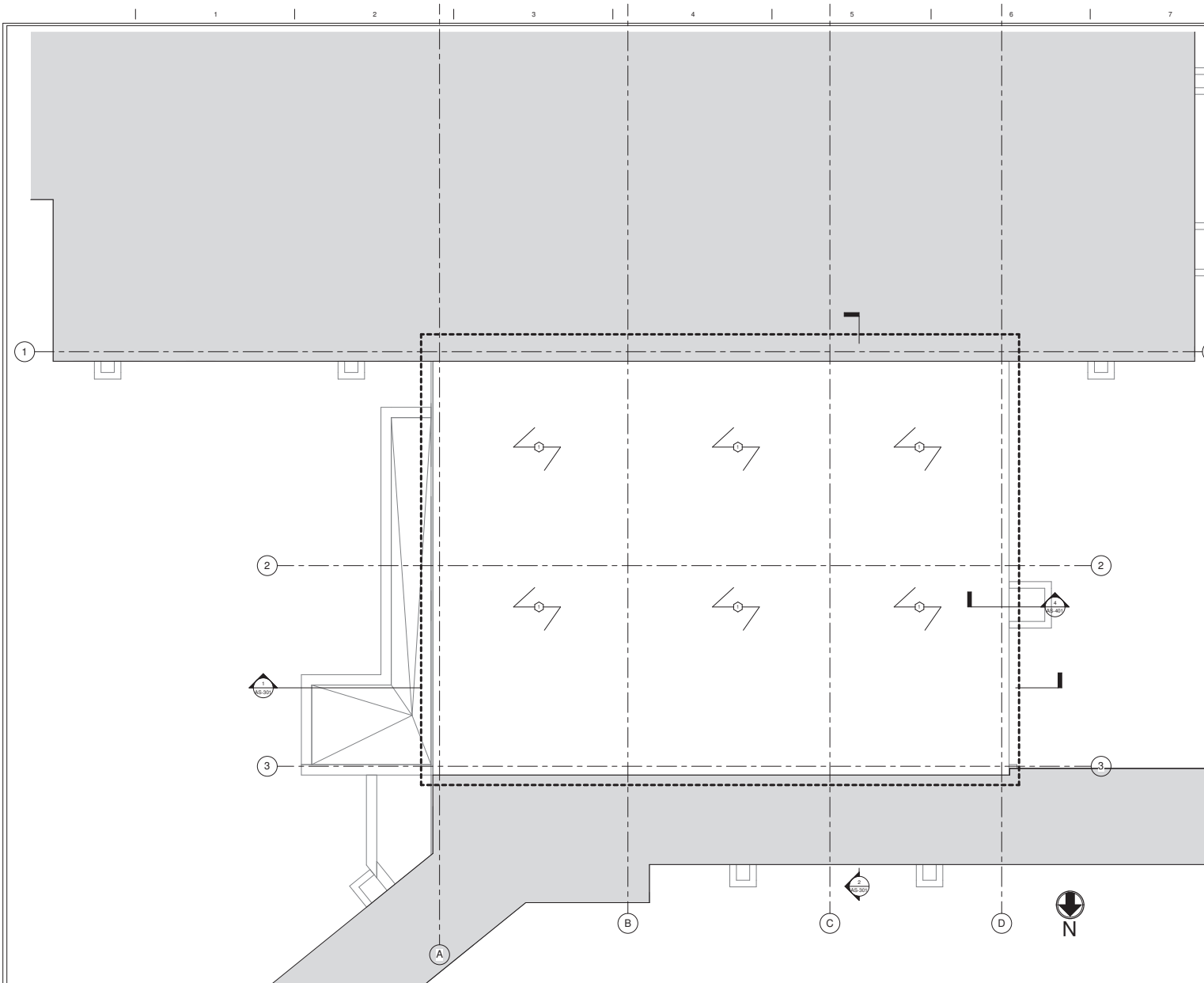
GYPSUM BOARD PARTITION GENERAL NOTES

1. ALL GYP BD PARTITIONS SHALL BE A1 UNLESS OTHERWISE NOTED ON FLOOR PLANS
2. GYP BD PARTITION DIMENSIONS ON FLOOR PLAN ARE BASED ON FACE OF FINISHED PARTITION TO FACE OF FINISHED PARTITION (NOMINAL).
3. REFER TO GYP BD SPECIFICATION FOR LOCATIONS & TYPE(S) OF GYPSUM BOARD MATERIAL REQUIRED.
4. PROVIDE TYPE "X" FIRE RATED GYPSUM BOARD AT ALL FIRE RATED PARTITIONS. SEAL ALL WALL PENETRATIONS AT PERIMETER AND FIRESTOP ALL FIRE RATED PARTITIONS.
5. REFERENCE "LIFE SAFETY PLANS" FOR WALL RATINGS

FLOOR PLAN KEYED NOTES

- ① INFILL PREVIOUS DOOR LOCATION WITH WALL TYPE THAT MATCHES ADJACENT FIRE RATING AND FINISH.
- ② PATCH EXISTING WALL AS REQUIRED TO MATCH EXISTING ADJACENT WALL CONSTRUCTION.
- ③ PATCH EXISTING FLOORING TO MATCH ADJACENT AND PREPARE FOR NEW POOL FILTRATION EQUIPMENT. REFERENCE XJ SHEETS
- ④ PROVIDE STEAM CHASE
- ⑤ PROVIDE RIGID INSULATION
- ⑥ PROVIDE PRIVACY GLASS AT LOCATION
- ⑦ SINGLE SIDED BULLNOSE CMU AT OPENING

[illegible]



GRAPHIC LEGEND	
FLOOR PLAN - SYMBOLS LEGEND	
	AREA IN CONTRACT
	AREA NOT IN CONTRACT
	CONSTRUCTION LIMITS

- SHEET NOTES**
- A. DIMENSIONS ON FLOOR PLAN ARE BASED ON FACE OF FINISHED WALL TO FACE OF FINISHED WALL (NOMINAL).
- B. VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE.
- C. MAINTAIN CONTINUOUS UTILITY SERVICE TO ALL SPACES IN THE BUILDING NOT AFFECTED BY THIS WORK. COORDINATE WITH OWNER AND DISRUPTION IN SERVICES REQUIRED TO PERFORM WORK OR TO MODIFY EXISTING PIPING, DUCTWORK, OR ANY ASSOCIATED EQUIPMENT.
- D. REFER TO SHEET 1-AS601 FOR ROOM FINISH SCHEDULE AND NOTES. REFER TO SHEET 1-AS602 FOR DOOR SCHEDULES, DOOR TYPES, AND NOTES.
- F. IN WALL SUPPORT BLOCKING TO BE PROVIDED AT ALL DOOR WALL STOP LOCATIONS PER DETAIL 5-1-A17.
- G. HLT1 SPEED SLEEVE OR APPROVAL EQUAL REQUIRED FOR CONDUIT AND PIPING PENETRATIONS THROUGH FIRE RATED WALLS.
- H. ALL WET AREAS TO RECEIVE NEW TILE FLOORING AS INDICATED ON THE ROOM FINISH SCHEDULE AND ARE TO RECEIVE A WATERPROOFING MEMBRANE.
- I. DEMOLITION AS REQUIRED FOR ABATEMENT IS TO BE RECONSTRUCTED BY CONTRACTOR AS REQUIRED TO MATCH ADJACENT CONDITIONS.

- KEY NOTES**
- ① PATCH ROOFING TO MATCH ADJACENT ROOF WHERE EQUIPMENT IS REMOVED

1 ROOF LEVEL
SCALE: 1/4" = 1'-0"

RE-3 AS-301

Drawing Title
ROOF PLAN

022309
JAMES A. LOVELL FHCC
3001 GREEN BAY ROAD
NORTH CHICAGO, IL 60064

Project Name
**RENOVATE MEN'S AND
WOMEN'S SHOWERS &
REPLACE POOL FILTER**

Project Number
556-13-125
SBS
4 APRIL 2013

Drawing Number
AS-103

Building Number
132

Checked
RHC

Drawn
CAW

Design
df

Office of
Construction and Facilities
Management

Department of
Veterans Affairs

CONSULTANTS:



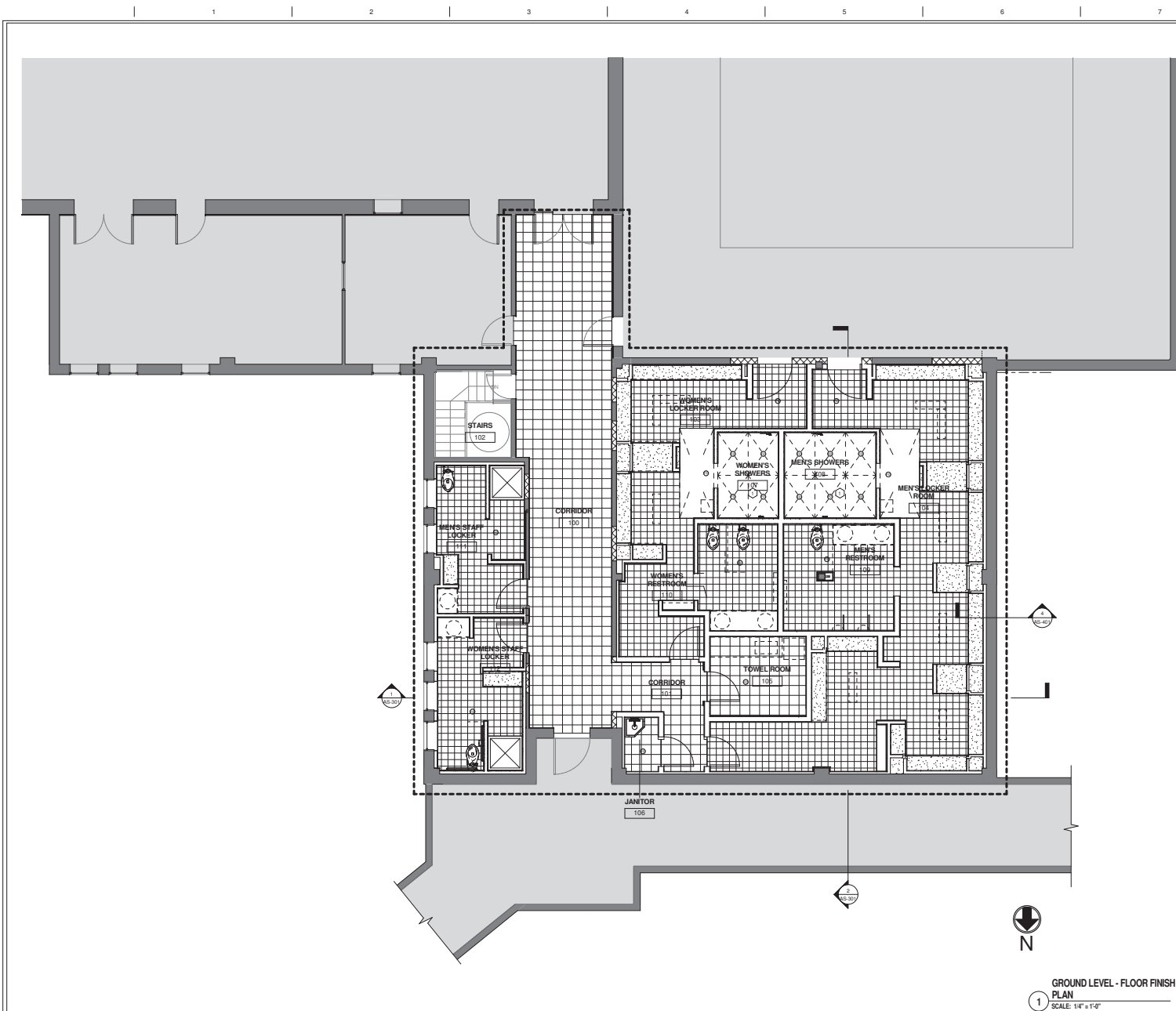
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ARCHITECT/ENGINEERS:

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ARCHITECTURE PLANNING INTERIORS
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Fax: 512.327.7079 Fax: 312.424.9439
coxdesign@austin.az.com hccw@coxdesign.com

Approved: Assistant Director	Approved: Chief of Staff	Approved: Chief, Engineering
Approved: Service Chief	Approved: Service Chief	Approved: Service Chief
Approved: Chief, Bio-Med	Approved: Chief, EMS	Approved: Chief, Infection Control
Approved: Chief, IT	Approved: Chief, MRO	Approved: Chief, Police
Approved: Chief, Safety	Approved: Chief	Approved: Chief



GRAPHIC LEGEND			
	AREA IN CONTRACT		AREA NOT IN CONTRACT
	CONSTRUCTION LIMITS		ITEM INSTALLED ABOVE FLOORING
	EXISTING WALL TO REMAIN		FLOOR DRAIN
	NEW WALL / PARTITION		NO FINISH
	WALL FINISH CALLOUT		FLOOR DRAIN
	4" CONCRETE LOCKER PLATFORM		
	PT-1		
	PT-2		
	VCT-1		

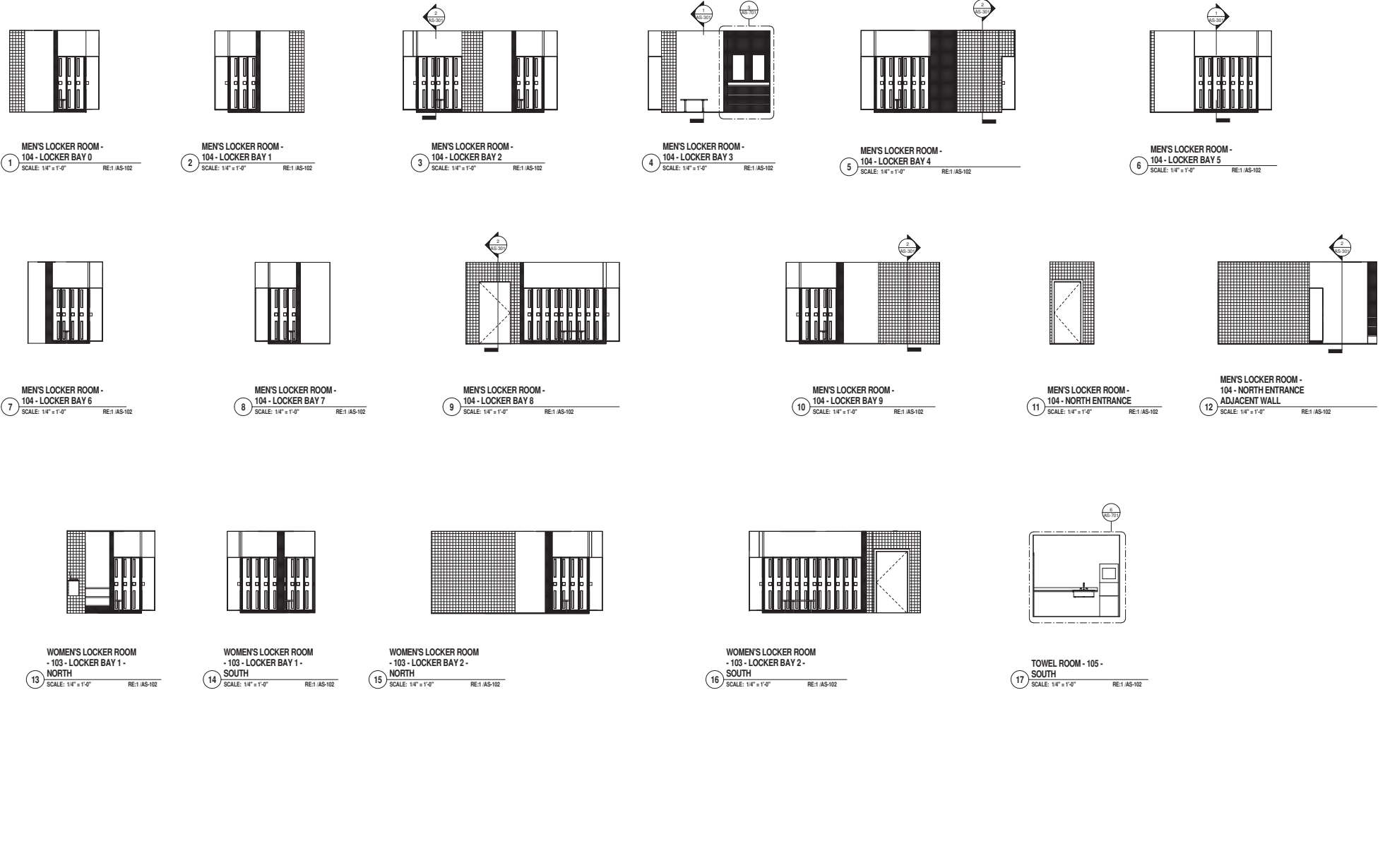
- SHEET NOTES**
- A CONTRACTOR SHALL REMOVE EXISTING FLOORING MATERIALS ENTIRELY AND PREPARE CONCRETE FLOORS AS SPECIFIED FOR INSTALLATION OF NEW FLOORING MATERIALS AS SCHEDULED.
 - B CONTRACTOR SHALL INSTALL NEW FLOORING IN PATTERNS INDICATED TO THE GREATEST EXTENT POSSIBLE. PATTERN DEVIATIONS SHALL BE APPROVED BY THE C.O.T.R. PRIOR TO INSTALLATION.
 - C TERMINATE OR TRANSITION DISSIMILAR FLOORING MATERIALS AT THE CENTERLINE OF DOORS.
 - D PROVIDE A FLUSH TRANSITION BETWEEN FLOORING MATERIALS OF VARYING HEIGHTS. PROVIDE TRANSITION STRIPS AS INDICATED ON MATERIAL SCHEDULE.
 - E INSTALL NEW DOOR STOPS.
 - F FLOORING TO RUN CONTINUOUSLY BENEATH ALL CASEWORK.
 - G DIFFERENT FLOOR MATERIALS ADJACENT TO EACH OTHER ARE TO BE FLUSH. FEATHER AND ALIGN AS REQUIRED.
 - H WATERPROOF MEMBRANE TO BE INSTALLED THROUGHOUT SHOWER AREAS INCLUDING LOCKER ROOM AREAS.
 - I PROVIDE BUILT UP FLOORING AREA FOR PROPER SLOPE TO FLOOR DRAINS, TYPICAL IN GANG SHOWERS. BUILT UP FLOORING TO BE FEATHERED OUT ADJACENT TO FLOOR DRAIN AND ELEVATED FLOORING TO PROVIDE GRADUAL TRANSITION FROM LOWER FLOOR HEIGHT TO BUILT UP FLOOR HEIGHT.

- KEY NOTES**
- 1 PROVIDE CONTINUOUS EPOXY (EPX-1) FLOORING

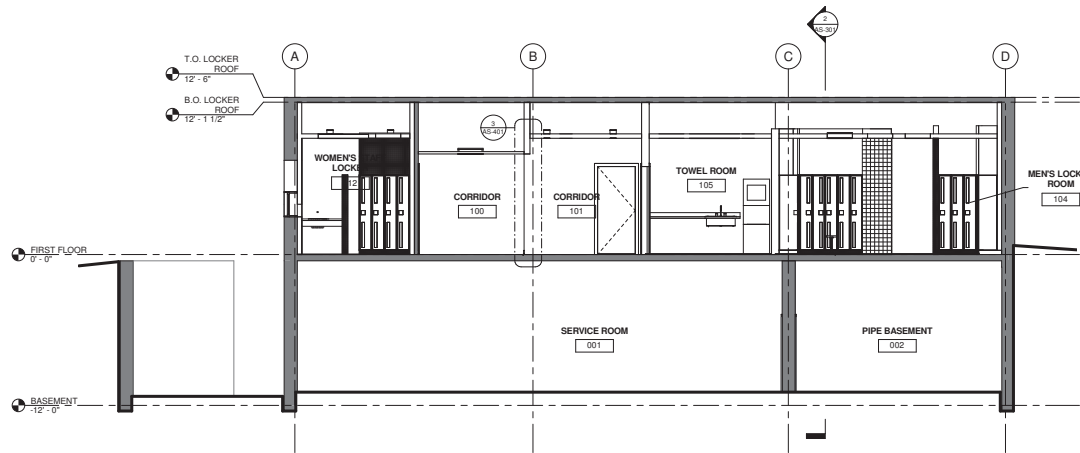
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Approved: Assistant Director	Approved: Chief of Staff	Approved: Chief, Engineering																								
Approved: Service Chief	Approved: Service Chief	Approved: Service Chief																								
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Approved: Chief Safety	Approved: Chief	Approved: Chief																								



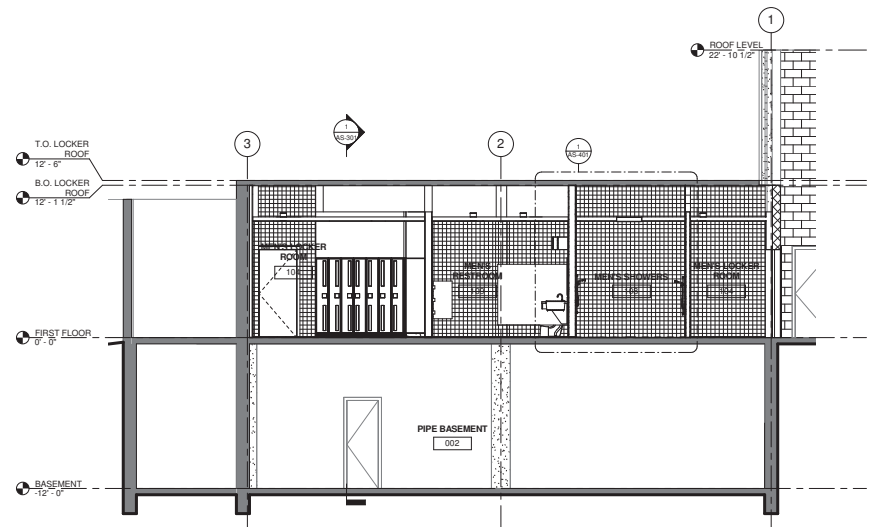
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Approved: Assistant Director	Approved: Chief of Staff	Approved: Chief, Engineering																														
Approved: Service Chief	Approved: Service Chief	Approved: Service Chief																														
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Approved: Chief, Safety	Approved: Chief	Approved: Chief																														
Building Number	Checked	Drawn																														
132	RHC	CAW																														



<div>SEAL OF THE ARCHITECT</div> <div>17 APRIL 2013</div>	<div>CONSULTANTS:</div> <div><div>KJWW ENGINEERING CONSULTANTS 21201 W. 40th Street, Suite 201 Overland Park, KS 66211 Tel: 913.241.1000 Fax: 913.241.1001 www.kjww.com</div><div>IEA 5201 West Broadway Brooklyn Park, MN 55443 Tel: 763.437.5500 Fax: 763.437.5501 www.iea.com</div></div>	<div>ARCHITECT/ENGINEERS:</div> <div><div>COX DESIGN ASSOCIATES ARCHITECTURE PLANNING INTERIORS Austin 5121 Bee Caves Road, Suite 203 345 N. Canal St. Suite 701 Austin, Texas 78746 Chicago, IL 60605 T: 512.327.4149 F: 512.454.9439 cda@coxdesign.com hco@coxdesign.com</div><div>Approved: Assistant Director Approved: Service Chief Approved: Chief Bio-Med Approved: Chief IT Approved: Chief Safety</div><div>Approved: Chief of Staff Approved: Service Chief Approved: Chief EMS Approved: Chief MBO Approved: Chief</div><div>Approved: Chief, Engineering Approved: Service Chief Approved: Chief, Infection Control Approved: Chief, Police Approved: Chief</div></div>	<div>Drawing Title</div> <div>INTERIOR ELEVATIONS</div> <div>223899 JAMES A. LOVELL FHCC 3001 GREEN BAY ROAD NORTH CHICAGO, IL 60064</div>	<div>Project Name</div> <div>RENOVATE MEN'S AND WOMEN'S SHOWERS & REPLACE POOL FILTER</div> <div>Building Number 132 Checked RHC Draw CAW</div>	<div>Project Number</div> <div>556-13-125</div> <div>04/17/13</div> <div>Drawing Number</div> <div>AS-202</div> <div>Dept. of</div>	<div>Office of Construction and Facilities Management</div> <div> Department of Veterans Affairs</div>
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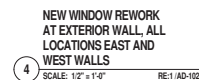
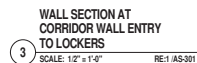


1 BUILDING SECTION - SOUTH
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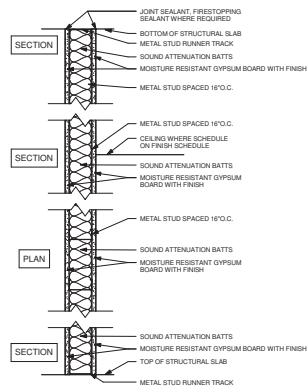


2 BUILDING SECTION - WEST
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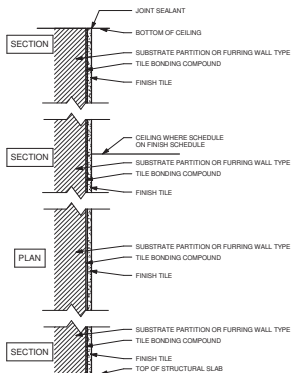
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Building Number 132		Checked RHC		Drawn CAW		Date of									

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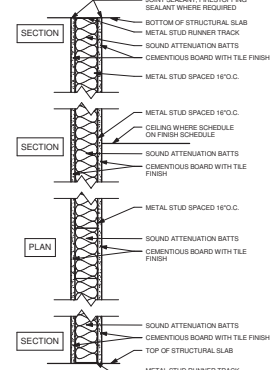
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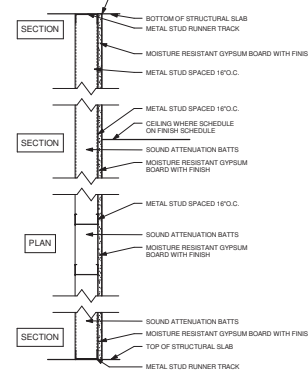
- 1 3 1/2" STEEL STUDS @ 16" O.C. W/ 3" SOUND ATTENUATION INSULATION & 5/8" MOISTURE RESISTANT GYP BD @ EACH FACE. PROVIDE 1HR RATED UL 8 UMS DESIGN WHERE 1HR CONSTRUCTION IS INDICATED ON PLANS
- 2 5 1/2" CMU
- 3 6" STEEL STUDS @ 16" O.C. W/ 3" SOUND ATTENUATION INSULATION & 5/8" MOISTURE RESISTANT GYP BD @ EACH FACE. PROVIDE 1HR RATED UL 8 UMS DESIGN WHERE 1HR CONSTRUCTION IS INDICATED ON PLANS



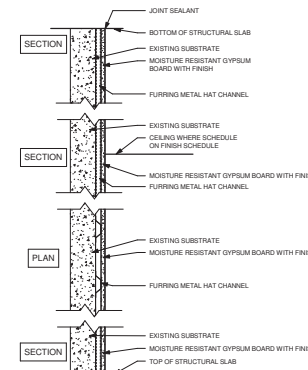
- 4 3 1/2" STEEL STUDS @ 16" O.C. W/ 3" SOUND ATTENUATION INSULATION & 5/8" MOISTURE RESISTANT GYP BD @ EACH FACE. PROVIDE 1HR RATED UL 8 UMS DESIGN WHERE 1HR CONSTRUCTION IS INDICATED ON PLANS
- 5 5 1/2" CMU
- 6 6" STEEL STUDS @ 16" O.C. W/ 3" SOUND ATTENUATION INSULATION & 5/8" MOISTURE RESISTANT GYP BD @ EACH FACE. PROVIDE 1HR RATED UL 8 UMS DESIGN WHERE 1HR CONSTRUCTION IS INDICATED ON PLANS



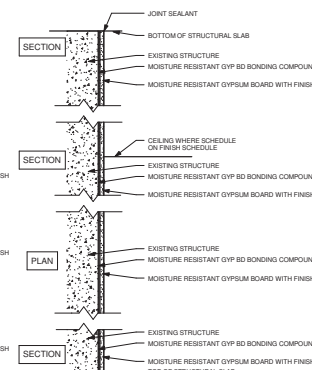
- 7 3 1/2" STEEL STUDS @ 16" O.C. W/ 3" SOUND ATTENUATION INSULATION & 5/8" MOISTURE RESISTANT GYP BD @ EACH FACE
- 8 5 1/2" CMU
- 9 6" STEEL STUDS @ 16" O.C. W/ 3" SOUND ATTENUATION INSULATION & 5/8" MOISTURE RESISTANT GYP BD @ EACH FACE



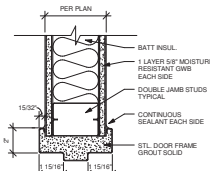
- 10 3 1/2" STEEL STUDS @ 16" O.C. W/ 3" SOUND ATTENUATION INSULATION & 5/8" MOISTURE RESISTANT GYP BD @ EACH FACE
- 11 5 1/2" CMU
- 12 6" STEEL STUDS @ 16" O.C. W/ 3" SOUND ATTENUATION INSULATION & 5/8" MOISTURE RESISTANT GYP BD @ EACH FACE



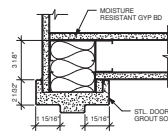
- 13 3 1/2" STEEL STUDS @ 16" O.C. W/ 3" SOUND ATTENUATION INSULATION & 5/8" MOISTURE RESISTANT GYP BD @ EACH FACE
- 14 5 1/2" CMU
- 15 6" STEEL STUDS @ 16" O.C. W/ 3" SOUND ATTENUATION INSULATION & 5/8" MOISTURE RESISTANT GYP BD @ EACH FACE



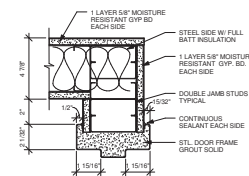
- 16 3 1/2" STEEL STUDS @ 16" O.C. W/ 3" SOUND ATTENUATION INSULATION & 5/8" MOISTURE RESISTANT GYP BD @ EACH FACE
- 17 5 1/2" CMU
- 18 6" STEEL STUDS @ 16" O.C. W/ 3" SOUND ATTENUATION INSULATION & 5/8" MOISTURE RESISTANT GYP BD @ EACH FACE



1 HOLLOW METAL DOOR FRAME JAMB @ MTL STUD
SCALE: 3" = 1'-0"



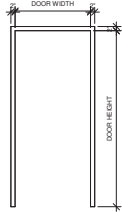
2 HOLLOW METAL DOOR FRAME JAMB @ MTL STUD
SCALE: 3" = 1'-0"



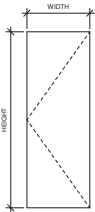
3 HOLLOW METAL DOOR FRAME JAMB @ PARTITION
SCALE: 3" = 1'-0"

		CONSULTANTS: KJWW ENGINEERING CONSULTANTS 21201 KYLE BLVD, SUITE 101, CHICAGO, IL 60605 TEL: 312.327.3149 FAX: 312.327.3079 www.kjww.com		ARCHITECT/ENGINEERS: COX DESIGN ASSOCIATES ARCHITECTURE PLANNING INTERIORS Austin 5121 Bee Caves Road, Suite 203 Austin, Texas 78746 T: 512.327.3149 F: 512.327.3079 ccoxdesign@austin.tx.com Chicago 345 N. Canal St. Suite 301 Chicago, IL 60605 T: 312.499.3080 F: 312.434.9439 hcox@coxdesign.com		Approved: Assistant Director Approved: Service Chief Approved: Chief Bio-Med Approved: Chief IT Approved: Chief Safety		Approved: Chief of Staff Approved: Service Chief Approved: Chief EMS Approved: Chief MBO Approved: Chief		Approved: Chief, Engineering Approved: Service Chief Approved: Chief, Infection Control Approved: Chief, Police Approved: Chief		Drawing Title WALL TYPES JAMES A. LOVELL FHCC 3001 GREEN BAY ROAD NORTH CHICAGO, IL 60064		Project Name RENOVATE MEN'S AND WOMEN'S SHOWERS & REPLACE POOL FILTER Building Number 132 Checked RHC Draw CAW Project Number 556-13-125 4 APRIL 2013 Drawing Number AS-501 Date: 4/4/13		Office of Construction and Facilities Management Department of Veterans Affairs	
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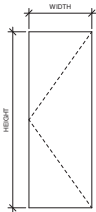
DOOR SCHEDULE													
ROOM #	ROOM NAME	DOOR NUMBER	DOOR				FRAME		HARDWARE GROUP	ASSEMBLY RATING	NOTES		
			WIDTH	HEIGHT	MATERIAL	FINISH	TYPE	MATERIAL					
101	CORRIDOR	101	36"	84"	WD	PLAM-1	1	MTL	PAT-5	A	2		
103A	WOMEN'S LOCKER ROOM	103A	36"	84"	WD	PLAM-1	1	MTL	PAT-5	A	1		
103B	WOMEN'S LOCKER ROOM	103B	42"	84"	MTL	PAT-5	2	MTL	PAT-5	A	1		
104A	MEN'S LOCKER ROOM	104A	36"	84"	WD	PLAM-1	1	MTL	PAT-5	A	1		
104B	MEN'S LOCKER ROOM	104B	42"	84"	MTL	PAT-5	2	MTL	PAT-5	A	1		
105	TOWEL ROOM	105	36"	84"	WD	PLAM-1	3	MTL	PAT-5	A	3		
111	MEN'S STAFF LOCKER	111	36"	84"	WD	PLAM-1	1	MTL	PAT-5	A	4		
112	WOMEN'S STAFF LOCKER	112	36"	84"	WD	PLAM-1	1	MTL	PAT-5	A	4		



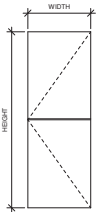
TYPE "A"
HOLLOW METAL FRAME



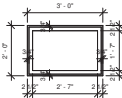
TYPE "1"
FLUSH PANEL WOOD



TYPE "2"
FLUSH PANEL METAL



TYPE "3"
FLUSH PANEL WOOD



1
DOUBLE PANE FIXED WINDOW

FRAME TYPES
SCALE: 1/2" = 1'-0"

DOOR TYPES
SCALE: 1/2" = 1'-0"

WINDOW TYPES
SCALE: 1/2" = 1'-0"

ROOM FINISH SCHEDULE										
ROOM NO.	ROOM NAME	WALL FINISH				FLOOR		CEILING	COMMENTS	
		NORTH	SOUTH	EAST	WEST	FLOOR MATERIAL	BASE MATERIAL			
001	SERVICE ROOM	NF	NF	NF	NF	NF	NF	NF	EXISTING FINISHES TO REMAIN, PATCH EXISTING	
002	PIPE BASEMENT	NF	NF	NF	NF	NF	NF	NF	EXISTING FINISHES TO REMAIN, PATCH EXISTING	
100	CORRIDOR	PAT-2	PAT-2	PAT-2	PAT-2	VCT-1, VCT-2	RB-1	ACT-1		
101	CORRIDOR	PAT-2	PAT-2	PAT-2	PAT-2	VCT-1, VCT-2	RB-1	ACT-1		
102	STAIRS	NF	NF	NF	NF	NF	NF	NF	EXISTING FINISHES TO REMAIN, PATCH EXISTING	
103	WOMEN'S LOCKER ROOM	PAT-2/PT-3/PT-4	PAT-2/PT-3/PT-4	PAT-2/PT-3/PT-4	PAT-2/PT-3/PT-4	PT-1/PT-5	PT-2	PAT-1	SEE ELEV. FOR WALL FIN. DTLs	
104	MEN'S LOCKER ROOM	PAT-2/PT-3/PT-4	PAT-2/PT-3/PT-4	PAT-2/PT-3/PT-4	PAT-2/PT-3/PT-4	PT-1/PT-5	PT-2	PAT-1	SEE ELEV. FOR WALL FIN. DTLs	
105	TOWEL ROOM	PAT-2	PAT-2	PAT-2	PAT-2	PT-1	RB-1	PAT-1		
106	JANITOR	FRP-1/PAT-2	FRP-1/PAT-2	FRP-1/PAT-2	FRP-1/PAT-2	VCT-1	N/A	PAT-1	FRP 36" WAINSCOT	
107	WOMEN'S SHOWERS	PT-3	PT-3	PT-3	PT-3	EPX-1	PT-2	PAT-1		
108	MEN'S SHOWERS	PT-3	PT-3	PT-3	PT-3	EPX-1	PT-2	PAT-1		
109	MEN'S RESTROOM	PAT-2/PT-3/PT-4	PAT-2/PT-3/PT-4	PAT-2/PT-3/PT-4	PAT-2/PT-3/PT-4	PT-1/PT-5/EPX-1	PT-2	PAT-1		
110	WOMEN'S RESTROOM	PAT-2/PT-3/PT-4	PAT-2/PT-3/PT-4	PAT-2/PT-3/PT-4	PAT-2/PT-3/PT-4	PT-1/PT-5/EPX-1	PT-2	PAT-1		
111	MEN'S STAFF LOCKER	PAT-2/PT-3/PT-4	PAT-2/PT-3/PT-4	PAT-2/PT-3/PT-4	PAT-2/PT-3/PT-4	PT-1/PT-5/EPX-1	PT-2	PAT-1	EPX IN SHOWER	
112	WOMEN'S STAFF LOCKER	PAT-2/PT-3/PT-4	PAT-2/PT-3/PT-4	PAT-2/PT-3/PT-4	PAT-2/PT-3/PT-4	PT-1/PT-5/EPX-1	PT-2	PAT-1	EPX IN SHOWER	

MATERIAL FINISH LEGEND

INTERIOR ARCHITECTURE WOODWORK - DIVISION 6									
FINISH CODE	MATERIAL	MANUFACTURER NO.	MANUFACTURER	PATTERN	COLOR	SIZE	FINISH REMARKS		
PLAM-1	PLASTIC LAMINATE	10745-65	WILSON ART	---	FONTHILL PEAR	---	LIGHT SCISSOR		
PLAM-2	PLASTIC LAMINATE	1555-65	WILSON ART	---	PURTY	---	ABOVE BHK LIGHTING FUR-OUT		

TILE - DIVISION 9									
FINISH CODE	MATERIAL	MANUFACTURER	STYLE	MANUFACTURER NO.	PATTERN	COLOR	SIZE	GROUT	ID FINISH REMARKS
PT-1	PORCELAIN TILE	AMERICAN OLEAN	---	---	---	BEACH	12" X 12"	GR-1	FIELD FLR
PT-2	PORCELAIN TILE	AMERICAN OLEAN	---	---	---	SEA GRASS	6" X 12"	GR-1	BASE TILE
PT-3	PORCELAIN TILE	AMERICAN OLEAN	---	---	---	BEACH	---	GR-1	WALL TILE
PT-4	PORCELAIN TILE	AMERICAN OLEAN	---	---	---	BEACH	---	GR-1	BULLNOSE
PT-5	PORCELAIN TILE	AMERICAN OLEAN	---	---	---	FOREST	12" X 12"	GR-1	ACCENT FLR
PT-6	PORCELAIN TILE	AMERICAN OLEAN	---	---	---	FOREST	1" X 1"	GR-1	MOSAIC

ACOUSTIC CEILING - DIVISION 9									
FINISH CODE	MATERIAL	MANUFACTURER	MANUFACTURER NO.	PATTERN	COLOR	SIZE	EDGE	GRID	FINISH REMARKS
ACT-1	ACOUSTIC CEILING TILE	ARMSTRONG	884	ORFUS REGULAR	WHITE	2' X 2'	---	WHITE 15/16"	---

RESILIENT FLOOR - DIVISION 9									
FINISH CODE	MATERIAL	MANUFACTURER	MANUFACTURER NO.	PATTERN	COLOR	EDGE	SIZE	SURFACE	ID FINISH REMARKS
VCT-1	VINYL COMPOSITE TILE	CONTINIA	CP2882	---	STONE	---	12" X 12"	---	---
VCT-2	VINYL COMPOSITE TILE	CONTINIA	CP2821	---	JADE	---	12" X 12"	---	---
RB-1	RUBBER BASE	JOHNSONITE	45	---	SAND WOOD	---	6"	---	---

PAINTING - DIVISION 9 (REFER TO ROOM FINISH SCHEDULE FOR FINISH DESIGNATION) PAE, PAF, PAT, PAX									
FINISH CODE	MATERIAL	MANUFACTURER	MANUFACTURER NO.	PATTERN	COLOR	SIZE	GROUT	ID FINISH REMARKS	
PAT-1	PAINT	SHERWIN-WILLIAMS	SW-7568	---	WEST HIGHLAND	---	---	---	---
PAT-2	PAINT	SHERWIN-WILLIAMS	SW-7552	---	SAUMUS	---	---	---	---
PAT-3	PAINT	SHERWIN-WILLIAMS	SW-7522	---	ALPACA	---	---	---	---
PAT-4	PAINT	SHERWIN-WILLIAMS	SW-2818	---	HEATHER	---	---	---	---
PAT-5	PAINT	SHERWIN-WILLIAMS	SW-7684	---	STEELY GRAY	---	---	---	---
PAE - EG SHELL FINISH		PAF - FLAT FINISH		PAT - SATIN FINISH		PAX - EPOXY FINISH			

MISCELLANEOUS SPECIALTIES - DIVISION 9 & 10									
FINISH CODE	MATERIAL	MANUFACTURER NO.	MANUFACTURER	PATTERN	COLOR	SIZE	FINISH REMARKS		
SBCT-1	COUNTERTOP, BACK SPLASH, AND SIDE SPLASH	SL-102	HANSTONE	CLASSIC	CHAMPAGNE	---	SOLID SURFACE		
CG-1	CORNER GUARD	16P	INPRO INC.	---	---	2" RECESSED	PAINT REVEAL TO MATCH WALL		
FRP-1	FIBER-REINFORCE PLASTIC PANEL	---	WILSON ART	SOLID	---	36" HIGH	FRP PANEL W/ BEVELED EDGE AROUND FLOOR SWK		
NF	NOT FINISH	---	---	---	---	---	---		

CONSULTANTS:

KJWW
ENGINEERING
CONSULTANTS
Approved Professional Seal No. 1111

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Brooklyn Park, MN 55442
Tel: 763.433.8813
Fax: 763.433.7992

17 APRIL 2013

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COX DESIGN ASSOCIATES

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covec@coxdesign.com hcox@coxdesign.com

Approved Assistant Director

Approved Chief of Staff

Approved Chief, Engineering

Approved Service Chief

Approved Service Chief

Approved Service Chief

Approved Chief, Bio-Med

Approved Chief, EMS

Approved Chief, Infection Control

Approved Chief, IT

Approved Chief, MBO

Approved Chief, Police

Approved Chief, Safety

Approved Chief

Approved Chief

Drawing Title

DOOR & FINISH SCHEDULE

Project Name

RENOVATE MEN'S AND WOMEN'S SHOWERS & REPLACE POOL FILTER

Project Number

556-13-125

4 APRIL 2013

Drawing Number

AS-601

Building Number

132

Checked

RHC

Drawn

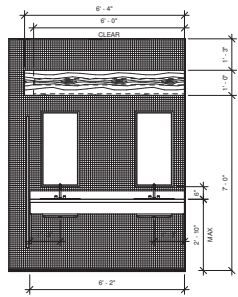
CAW

Dept. of

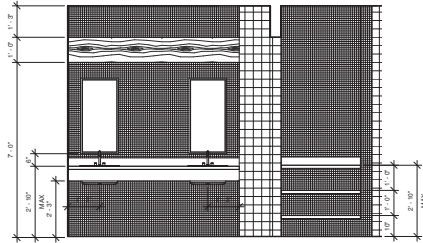
Office of Construction and Facilities Management

Department of Veterans Affairs

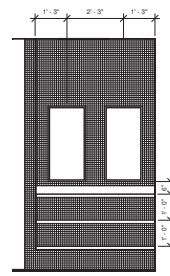
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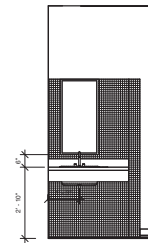
1 COUNTER @ MEN'S
RESTROOM - 109
SCALE: 1/2" = 1'-0" RE:25 / AS-201



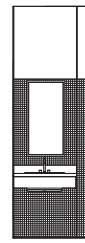
2 COUNTER @ WOMEN'S
RESTROOM - 110
SCALE: 1/2" = 1'-0" RE:21 / AS-201



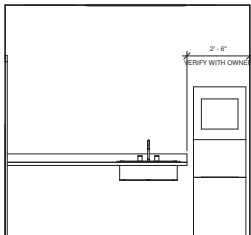
3 TOWEL COUNTER @
MEN'S LOCKER ROOM -
104
SCALE: 1/2" = 1'-0" RE:4 / AS-202



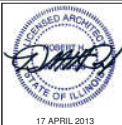
4 COUNTER @ WOMEN'S
STAFF LOCKER
SCALE: 1/2" = 1'-0" RE:5 / AS-201



5 COUNTER @ MEN'S
STAFF LOCKER - EAST
SCALE: 1/2" = 1'-0" RE:4 / AS-201



6 MILLWORK @ TOWEL
ROOM - 105
SCALE: 1/2" = 1'-0" RE:17 / AS-202



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Chicago 345 N. Canal St. Suite 301 Chicago, IL 60605
Tel: 312.327.1100 Fax: 312.327.1101
www.coxdesign.com

Approved: Assistant Director	Approved: Chief of Staff	Approved: Chief, Engineering
Approved: Service Chief	Approved: Service Chief	Approved: Service Chief
Approved: Chief, Bio-Med	Approved: Chief, EMS	Approved: Chief, Infection Control
Approved: Chief, IT	Approved: Chief, M&D	Approved: Chief, Police
Approved: Chief, Safety	Approved: Chief	Approved: Chief

Drawing Title
MILLWORK
JAMES A. LOVELL FHCC
3001 GREEN BAY ROAD
NORTH CHICAGO, IL 60064

Project Name
**RENOVATE MEN'S AND
WOMEN'S SHOWERS &
REPLACE POOL FILTER**






Project Number
556-13-125
20 MARCH 2013
Drawing Number
AS-701

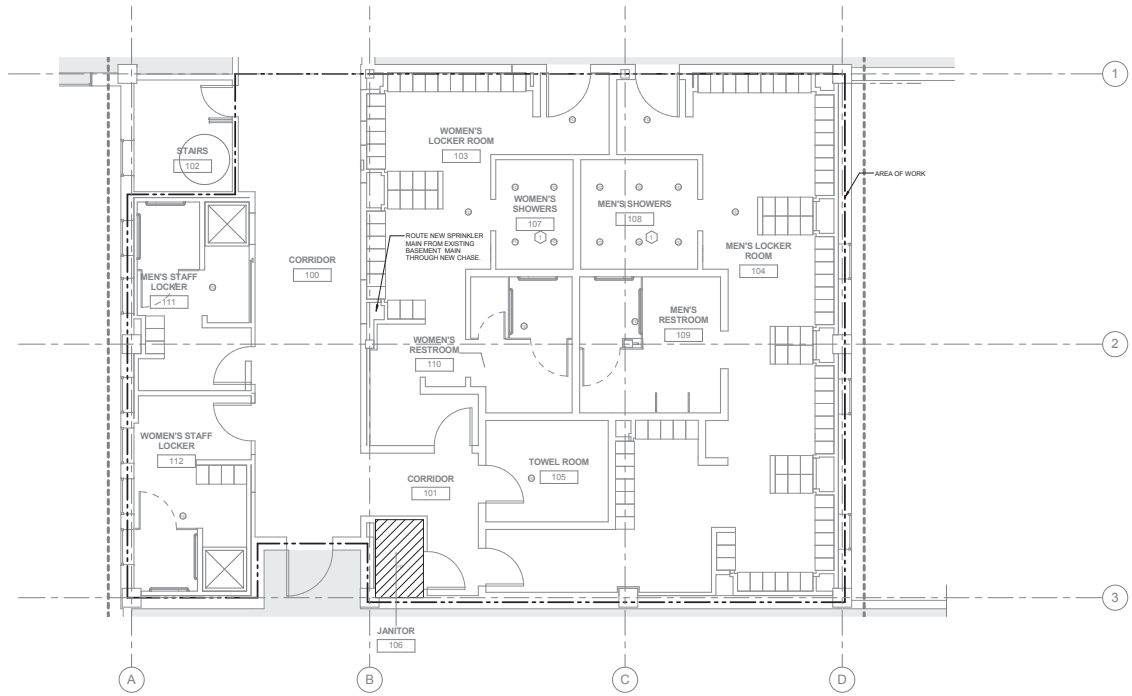
Office of
Construction and Facilities
Management
Department of
Veterans Affairs

 $1/4'' = 1'-0''$ VA FORM 08-6231

- GENERAL NOTES**
1. REFER TO ARCHITECTURAL REFLECTED CEILING TYPES, SOFFITS, AND CEILING PLAN FOR CEILING MOUNTED DEVICES. COORDINATE WORK WITH OTHER TRADES.
 2. EXISTING SPRINKLERS SHALL BE REMOVED BACK TO SPRINKLER MAINS AND CAPPED. SCOPE OF WORK INCLUDES REPAIRING ALL EXISTING SPRINKLER MAIN AND BRANCHES. PIPING TO SPINKER 10 SPINKLE THE FIRST FLOOR AREA OF WORK NOTED ON PLAN. THE BASEMENT AND STAIRWAY IS NOT INCLUDED IN THE SCOPE OF WORK. PROVIDE FULL SPRINKLER COVERAGE PER AREA HAZARD CLASSIFICATION AND NFPA 13.
 3. REFER TO SYMBOLS LIST FOR AREA HAZARD CLASSIFICATION. REFER TO SPRINKLER SCHEDULE FOR SPRINKLER HEAD TYPE. EXTEND SPRINKLER COVERAGE FOR THIS FLOOR FROM THE EXISTING SPRINKLER MAIN LOCATED IN THE BASEMENT LEVEL.
 - 4.

FIRE PROTECTION SYMBOLS LIST

SYMBOL	DESCRIPTION
	PIPE CAP
	PIPE DOWN
	PIPE UP OR UPDOWN
	LIGHT HAZARD
	ORDINARY GROUP 1



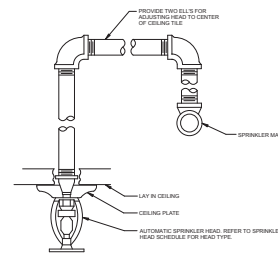
1 GROUND LEVEL PLAN
1/4" = 1'-0"

		CONSULTANTS:  KJW ENGINEERING CONSULTANTS 2710 E. 12th Street, Suite 100 Chicago, IL 60605 Tel: 773.327.7079 Fax: 773.327.7079 www.kjweng.com		ARCHITECT/ENGINEERS: COX DESIGN ASSOCIATES ARCHITECTURE PLANNING INTERIORS Austin 5121 Bee Caves Road, Suite 203 Austin, Texas 78746 Chicago 345 N. Canal St. Suite 301 Chicago, IL 60605 Tel: 312.327.4140 Tel: 312.327.7079 Tel: 312.424.9439 covecgm@austin.az.com hccov@coxna.com		<table><tr><td>Approved: Assistant Director</td><td>Approved: Chief of Staff</td><td>Approved: Chief, Engineering</td></tr><tr><td>Approved: Service Chief</td><td>Approved: Service Chief</td><td>Approved: Service Chief</td></tr><tr><td>Approved: Chief Bio-Med</td><td>Approved: Chief EMS</td><td>Approved: Chief, Infection Control</td></tr><tr><td>Approved: Chief IT</td><td>Approved: Chief MBO</td><td>Approved: Chief, Police</td></tr><tr><td>Approved: Chief Safety</td><td>Approved: Chief</td><td>Approved: Chief</td></tr></table>		Approved: Assistant Director	Approved: Chief of Staff	Approved: Chief, Engineering	Approved: Service Chief	Approved: Service Chief	Approved: Service Chief	Approved: Chief Bio-Med	Approved: Chief EMS	Approved: Chief, Infection Control	Approved: Chief IT	Approved: Chief MBO	Approved: Chief, Police	Approved: Chief Safety	Approved: Chief	Approved: Chief	<table><tr><td colspan="2">Drawing Title FIRE PROTECTION PLAN</td></tr><tr><td colspan="2">Project Name RENOVATE MEN'S & WOMEN'S SHOWERS</td></tr><tr><td colspan="2">Project Number 556-13-125</td></tr><tr><td colspan="2">Date 17 APRIL 2013</td></tr><tr><td colspan="2">Drawing Number FP-101</td></tr><tr><td>Building Number 132</td><td>Checked RHC</td><td>Drawn CAW</td><td>Design df</td></tr></table>		Drawing Title FIRE PROTECTION PLAN		Project Name RENOVATE MEN'S & WOMEN'S SHOWERS		Project Number 556-13-125		Date 17 APRIL 2013		Drawing Number FP-101		Building Number 132	Checked RHC	Drawn CAW	Design df	<table><tr><td colspan="2">Office of Construction and Facilities Management</td></tr><tr><td colspan="2">Department of Veterans Affairs</td></tr></table>		Office of Construction and Facilities Management		Department of Veterans Affairs	
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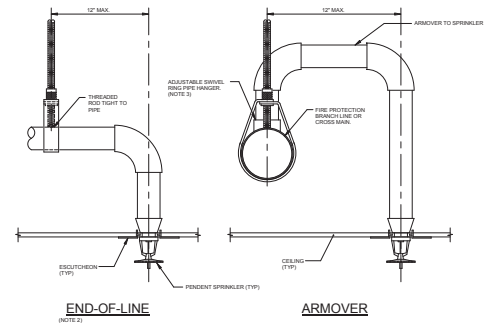
FIRE SPRINKLER USAGE SCHEDULE

AREA TYPE (NOTE 1 & 4)	AREA HAZARD	SPRINKLER					MANUFACTURER & MODEL	REMARKS
		SYMBOL (NOTES 4 & 5)	TYPE	RESPONSE	FINISH	TEMPERATURE °F		
FINISHED AREAS	SEE PLANS	SPR-1	RECESSED PENDENT	QUICK	CHROME PLATED	155	TYGONG VIK, RELIABLE F.F.P.R. TYCO TY-F88, VICTAULIC V2788	NOTES 2, 3

- NOTES:**
- SEE FLOOR PLANS FOR ZONING REQUIREMENTS.
 - SPRINKLER SHALL HAVE COLOR CODED BULB THERMAL ELEMENT.
 - ALL SPRINKLERS SHALL BE UL AND FM LISTED.
 - CONTRACTOR TO VERIFY SPRINKLER REQUIREMENTS BASED ON ACTUAL INSTALLATION, USAGE, ARCHITECTURAL CEILING PLAN AND NFPA 13 REQUIREMENTS.
 - SYMBOL IS PRIMARILY FOR IDENTIFYING SPRINKLERS IN SUBMITTALS. IT MAY OR MAY NOT BE FOUND ELSEWHERE ON THE DRAWINGS. CONTRACTOR TO SUBMIT ALL SPRINKLER TYPES TO BE USED.
 - AREAS ARE GENERAL IN NATURE. CONTRACTOR TO MATCH UNSCHEDULED AREAS TO SIMILAR SPACES.



1 SPRINKLER HEAD MOUNTING DETAIL
NO SCALE



2 SPRINKLER PIPE HANGER DETAIL
NO SCALE

NOTES:

- THIS DETAIL APPLIES TO SPRINKLER PIPES ABOVE CEILING THAT SUPPLY PENDENT SPRINKLERS BELOW CEILING WHERE THE WATER PRESSURE EXCEEDS 100 PSIG (STATIC OR RESIDUAL).
- ALSO APPLIES TO ARMOVER WHERE CUMULATIVE HORIZONTAL LENGTH IS GREATER THAN 12\"/>

<div> <div> <p>ADAM K. GANDY REGISTERED PROFESSIONAL ENGINEER STATE OF ILLINOIS EXPIRATION DATE: 12/31/2022</p> </div> <div> <p>CONSULTANTS:</p> <p>KJW ENGINEERING CONSULTANTS 277 N. LAKE STREET CHICAGO, ILLINOIS 60610 TEL: 312.586.8888 WWW.KJWENGINEERING.COM</p> <p>STRUCTURAL / MECHANICAL / ELECTRICAL TECHNOLOGY / MEDICAL EQUIPMENT SOLUTION</p> </div> </div>		<p>ARCHITECT/ENGINEERS:</p> <p>COX DESIGN ASSOCIATES</p> <p>ARCHITECTURE PLANNING INTERIORS</p> <p>Austin 5121 Bay Coves Road, Suite 203 Austin, Texas 78756 T: 512-327-4140 F: 512-454-9439 ccoxdesign@austin.tx.us</p> <p>Chicago 345 N. Canal St. Suite 701 Chicago, IL 60605 T: 312-499-3880 F: 312-454-9439 hcox@coxdesign.com</p>		<table border="1"> <tr> <td>Approved: Assistant Director</td> <td>Approved: Chief of Staff</td> <td>Approved: Chief, Engineering</td> </tr> <tr> <td>Approved: Service Chief</td> <td>Approved: Service Chief</td> <td>Approved: Service Chief</td> </tr> <tr> <td>Approved: Chief Bio-Med</td> <td>Approved: Chief EMS</td> <td>Approved: Chief, Infection Control</td> </tr> <tr> <td>Approved: Chief IT</td> <td>Approved: Chief MRO</td> <td>Approved: Chief, Police</td> </tr> <tr> <td>Approved: Chief Safety</td> <td>Approved: Chief</td> <td>Approved: Chief</td> </tr> </table>			Approved: Assistant Director	Approved: Chief of Staff	Approved: Chief, Engineering	Approved: Service Chief	Approved: Service Chief	Approved: Service Chief	Approved: Chief Bio-Med	Approved: Chief EMS	Approved: Chief, Infection Control	Approved: Chief IT	Approved: Chief MRO	Approved: Chief, Police	Approved: Chief Safety	Approved: Chief	Approved: Chief	<p>Drawing Title</p> <p>FIRE PROTECTION SCHEDULE AND DETAILS</p> <p>022859</p> <p>JAMES A. LOVELL FHCC 3001 GREEN BAY ROAD NORTH CHICAGO, IL 60064</p>		<p>Project Name</p> <p>RENOVATE MEN'S & WOMEN'S SHOWERS</p> <p>Building Number 132</p> <p>Checked RHC</p> <p>Drawn CAW</p> <p>Project Number 556-13-125</p> <p>DATE 17 APRIL 2013</p> <p>Drawing Number FP-301</p> <p>Dept. of</p>		<p>Office of Construction and Facilities Management</p> <p>Department of Veterans Affairs</p>	
Approved: Assistant Director	Approved: Chief of Staff	Approved: Chief, Engineering																									
Approved: Service Chief	Approved: Service Chief	Approved: Service Chief																									
Approved: Chief Bio-Med	Approved: Chief EMS	Approved: Chief, Infection Control																									
Approved: Chief IT	Approved: Chief MRO	Approved: Chief, Police																									
Approved: Chief Safety	Approved: Chief	Approved: Chief																									

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PLUMBING BASEMENT DEMOLITION PLAN

1/2" = 1'-0"

GENERAL NOTES:

1. PLUMBING EXISTING CONDITIONS ARE BASED ON FIELD OBSERVATIONS. CONDITIONS WITHIN WALL, CEILING AND ABOVE HANG CEILING ARE TO BE VERIFIED IN THE FIELD BY CONTRACTOR.
2. THE REMOVAL OF PIPING INDICATED ON THE DEMOLITION PLAN IS TO INCLUDE ALL SUPPORTS, HANGERS AND FITTINGS.
3. COORDINATE ALL ABOVE CEILING WORK WITH OTHER TRADES.

KEYNOTES:

1. DISCONNECT AND REMOVE SANITARY PIPING. SEE NEW WORK PLAN FOR NEW PIPING LAYOUT.
2. EXISTING DOMESTIC HOT WATER HEAT EXCHANGER SYSTEMS TO REMAIN. DISCONNECT PIPING AT LOCATIONS SHOWN ON PLAN. SEE NEW WORK PLAN FOR CONNECTION TO NEW PIPING.
3. DISCONNECT AND REMOVE C/W PIPING AT 1" MAIN. ALL BROWN. RETAIN PIPING THAT SERVES POOL FILTRATION EQUIPMENT. SEE NEW WORK PLAN FOR CONNECTION OF NEW PIPING TO EXISTING.
4. DISCONNECT C/W PIPING TO EXISTING EYE WASH. SEE NEW WORK PLAN FOR CONNECTION OF NEW PIPING TO EXISTING EYE WASH.
5. DISCONNECT AND REMOVE C/W PIPING AT HOSE BIB. ABANDON HOSE BIB IN PLACE.

PLUMBING SYMBOLS LIST

SYMBOL	DESCRIPTION:
---	EXISTING TO REMAIN
----	EXISTING TO BE REMOVED
---	NEW
—C/W—	COLD WATER - POTABLE
—H/W—	HOT WATER - POTABLE
—HWC—	HOT WATER CIRCULATING - POTABLE
—SAN—	SANITARY DRAINAGE
—V—	VENT
—P—	PIPE CAP
—D—	PIPE DOWN
—U—	PIPE UP OR UP/DOWN
—FD—	PIPE SERVING FUTURE ON FLOOR ABOVE (EXAMPLE: FD = FLOOR DRAIN)
—>—	DIRECTION OF FLOW IN PIPE
—X—	NEW CONNECTION
—S—	SHUTOFF VALVE NORMALLY OPEN
—B—	BALANCING VALVE (NO. INDICATES GPM)
—C—	CHECK VALVE
—CD—	CLEANOUT
—FD—	FLOOR DRAIN
—LAV—	LAVATORY
—SH—	SHOWER
—SK—	SINK
—WC—	WATER CLOSET

2

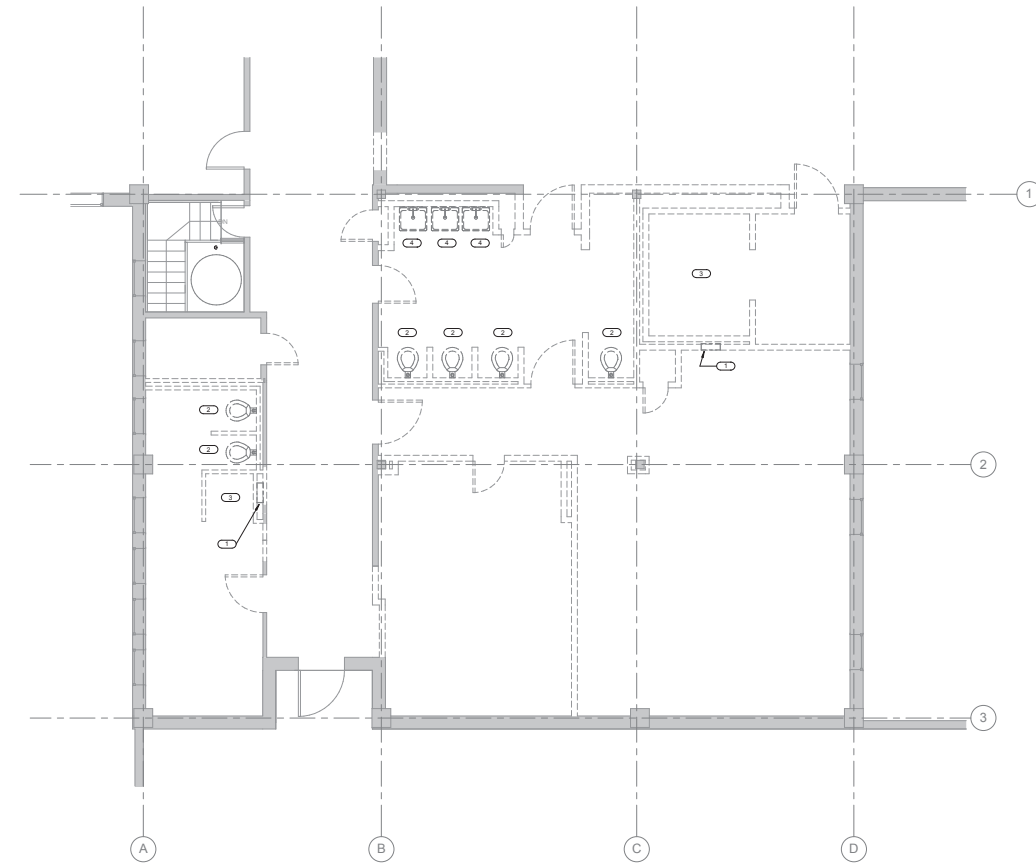
PLUMBING SYMBOLS LIST

1/2" = 1'-0"

<div>APPROVED FOR CONSTRUCTION DATE: 4/15/2013 BY: JAMES A. LOVELL</div>		CONSULTANTS: <div>KJW ENGINEERING CONSULTANTS 2710 S. RICHMOND AVE., SUITE 100 CHICAGO, IL 60605 TEL: 312.352.7070 FAX: 312.352.7071 www.kjweng.com</div>		ARCHITECT/ENGINEERS: COX DESIGN ASSOCIATES ARCHITECTURE PLANNING INTERIORS Austin 5121 Bee Caves Road, Suite 203 Austin, Texas 78746 Chicago 345 N. Canal St. Suite 301 Chicago, IL 60605 Tel: 312.327.4140 Fax: 312.327.4141 Tel: 312.327.4140 Fax: 312.327.4141 coxdesign@austin.tx.us		<div>Approved: Assistant Director Approved: Service Chief Approved: Chief Bio-Med Approved: Chief IT Approved: Chief Safety</div>		<div>Approved: Chief of Staff Approved: Service Chief Approved: Chief EMS Approved: Chief MBO Approved: Chief</div>		<div>Approved: Chief, Engineering Approved: Service Chief Approved: Chief, Infection Control Approved: Chief, Police Approved: Chief</div>		<div>Drawing Title PLUMBING BASEMENT DEMOLITION PLAN</div> <div>223259 JAMES A. LOVELL FHCC 3001 GREEN BAY ROAD NORTH CHICAGO, IL 60064</div>		<div>Project Name RENOVATE MEN'S & WOMEN'S SHOWERS</div> <div>Building Number 132 Checked RHC Drawn CAW</div>		<div>Project Number 556-13-125</div> <div>DATE 17 APRIL 2013 Drawing Number PD-100</div>		<div>Office of Construction and Facilities Management Department of Veterans Affairs</div>	
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- GENERAL NOTES**
1. REMOVE ALL EXISTING PLUMBING FIXTURES, PIPING, SUPPORTS, AND HANGERS FROM LOCKER ROOM AREA. SEE NEW WORK PLANS FOR NEW PLUMBING FIXTURE LAYOUT.
 2. FIELD VERIFY LOCATIONS OF ALL EXISTING VENTS. ALL EXISTING VENTS ARE TO BE CUT BELOW THE ROOF AND ABANDONED IN PLACE. PROVIDE WEATHER-TIGHT CAP.
- KEY NOTES**
1. DISCONNECT AND REMOVE W/C INCLUDING ALL C/W, SAN, AND VENT PIPING.
 2. DISCONNECT AND REMOVE SHOWER FIXTURE INCLUDING ALL C/W, HW, VENT, AND SAN PIPING.
 3. DISCONNECT AND REMOVE LAV INCLUDING ALL C/W, HW, SAN, AND VENT PIPING. REMOVE ALL FITTINGS AND SUPPORTS.

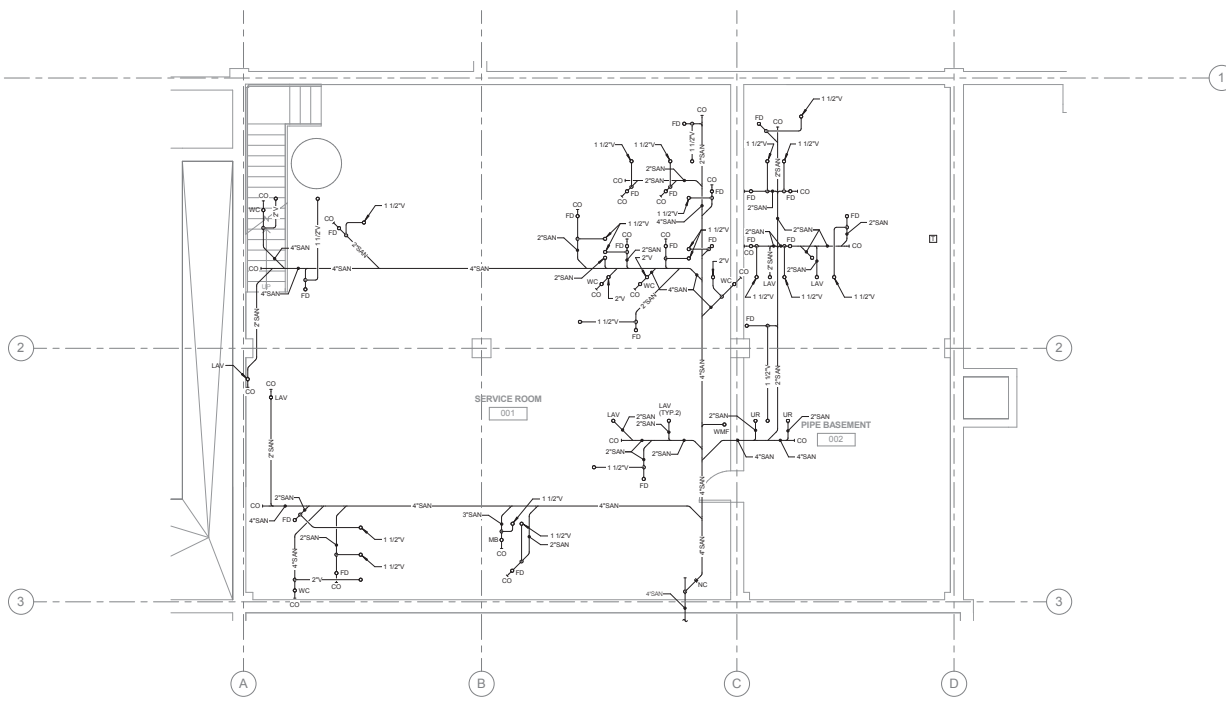


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1" = 1'-0"

GROUND LEVEL DEMOLITION PLAN

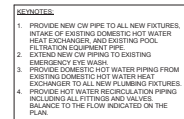
<p>EXPIRATION DATE: 11/15/2013</p>		<p>CONSULTANTS:</p> <p>KJW ENGINEERING CONSULTANTS 2710 E. 12th Street Chicago, IL 60605 Tel: 773.327.7079 Fax: 773.327.7079 www.kjweng.com</p>		<p>ARCHITECT/ENGINEERS:</p> <p>COX DESIGN ASSOCIATES ARCHITECTURE PLANNING INTERIORS Austin 5121 Bee Caves Road, Suite 203 Austin, Texas 78746 Chicago 345 N. Canal St. Suite 701 Chicago, IL 60605 Tel: 312.327.4149 Tel: 312.327.7079 Fax: 312.424.9439 cove@coxdesign.com</p>		<p>Approved: Assistant Director Approved: Service Chief Approved: Chief Bio-Med Approved: Chief IT Approved: Chief Safety</p>		<p>Approved: Chief of Staff Approved: Service Chief Approved: Chief EMS Approved: Chief MBO Approved: Chief</p>		<p>Approved: Chief, Engineering Approved: Service Chief Approved: Chief, Infection Control Approved: Chief, Police Approved: Chief</p>		<p>Drawing Title PLUMBING FIRST FLOOR DEMOLITION PLAN</p>		<p>Project Name RENOVATE MEN'S & WOMEN'S SHOWERS</p>		<p>Project Number 556-13-125</p>		<p>Office of Construction and Facilities Management Department of Veterans Affairs</p>	
<p>Building Number 132</p>		<p>Checked RHC</p>		<p>Drawn CAW</p>		<p>Dwg. of</p>		<p>02/28/2013 JAMES A. LOVELL FHCC 3001 GREEN BAY ROAD NORTH CHICAGO, IL 60064</p>		<p>02/28/2013 JAMES A. LOVELL FHCC 3001 GREEN BAY ROAD NORTH CHICAGO, IL 60064</p>		<p>17 APRIL 2013</p>		<p>Drawing Number PD-101</p>		<p>02/28/2013 JAMES A. LOVELL FHCC 3001 GREEN BAY ROAD NORTH CHICAGO, IL 60064</p>			

GENERAL NOTES:
1. PROVIDE ALL NEW SAN AND VENT PIPING TO SERVE FEATURES LOCATED ON THE FLOOR ABOVE. CONNECT TO EXISTING SANITARY MAIN AS SHOWN ON PLAN.

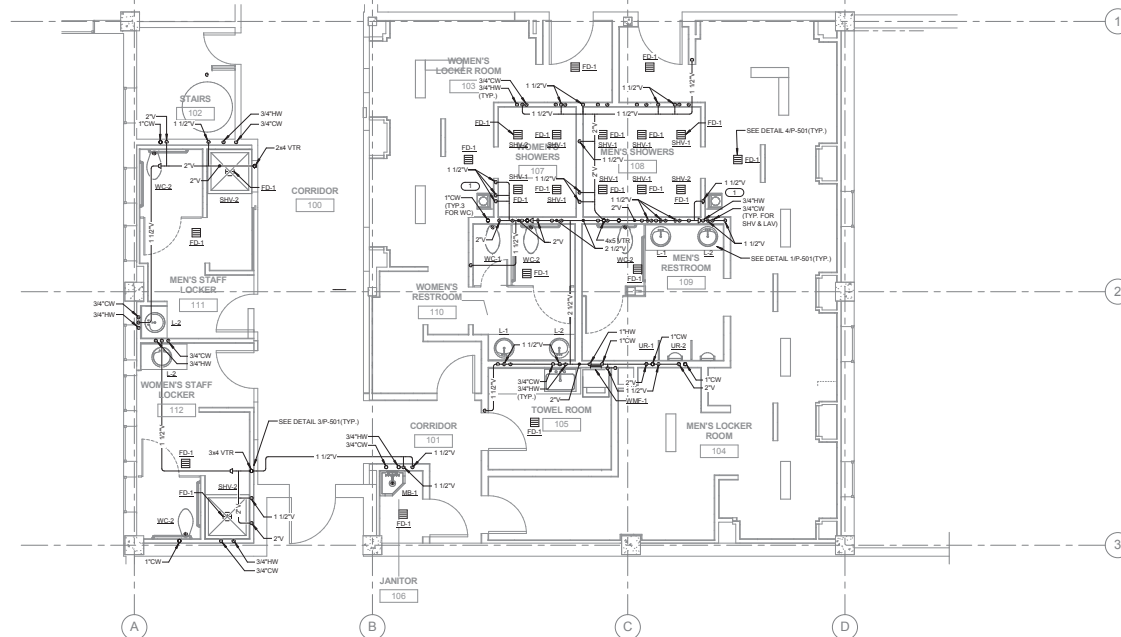


1 PLUMBING BASEMENT SANITARY PLAN
1/4" = 1'-0"

<div>Signature: <i>James A. Lovell</i> Professional Engineer Illinois Expiration Date: 11/30/2013</div>		CONSULTANTS: <div>WJW ENGINEERING CONSULTANTS 2715 E. 12th Street Chicago, IL 60605 Tel: 773.312.1000 Fax: 773.312.1001 www.wjw.com</div> <div>STRUCTURAL / MECHANICAL / ELECTRICAL TECHNOLOGY / MEDICAL EQUIPMENT SOLUTIONS</div>	ARCHITECT/ENGINEERS: COX DESIGN ASSOCIATES ARCHITECTURE PLANNING INTERIORS Austin 5121 Bee Caves Road, Suite 203 Austin, Texas 78746 Chicago 345 N. Canal St. Suite 301 Chicago, IL 60605 Tel: 312.327.4140 Fax: 312.327.7079 covey@coxdesign.com	<div>Approved: Assistant Director Approved: Service Chief Approved: Chief Bio-Med Approved: Chief IT Approved: Chief Safety</div> <div>Approved: Chief of Staff Approved: Service Chief Approved: Chief EMS Approved: Chief MBO Approved: Chief</div> <div>Approved: Chief, Engineering Approved: Service Chief Approved: Chief, Infection Control Approved: Chief, Police Approved: Chief</div>	<div>Drawing Title PLUMBING BASEMENT SANITARY PLAN</div> <div>023859 JAMES A. LOVELL FHCC 3001 GREEN BAY ROAD NORTH CHICAGO, IL 60064</div>	<div>Project Name RENOVATE MEN'S & WOMEN'S SHOWERS</div> <div>Building Number 132 Checked RHC Drawn CAW</div> <div>Project Number 556-13-125 SBE 17 APRIL 2013 Drawing Number P-100 Date of</div>	<div>Office of Construction and Facilities Management Department of Veterans Affairs</div>
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VA FORM 08-6231

- GENERAL NOTES**
1. REFER TO DETAIL P-501 FOR PIPE HANGER AND SUPPORTS DETAIL.
- KEYNOTES**
- 1.**
1. PROVIDE 2" P-TRAP WITHIN THE CAVITY OF THE SHW/ST/DRYER ROUTE SAN AND VENT PIPE AS SHOWN.




1 PLUMBING FIRST FLOOR PLAN
1/4" = 1'-0"

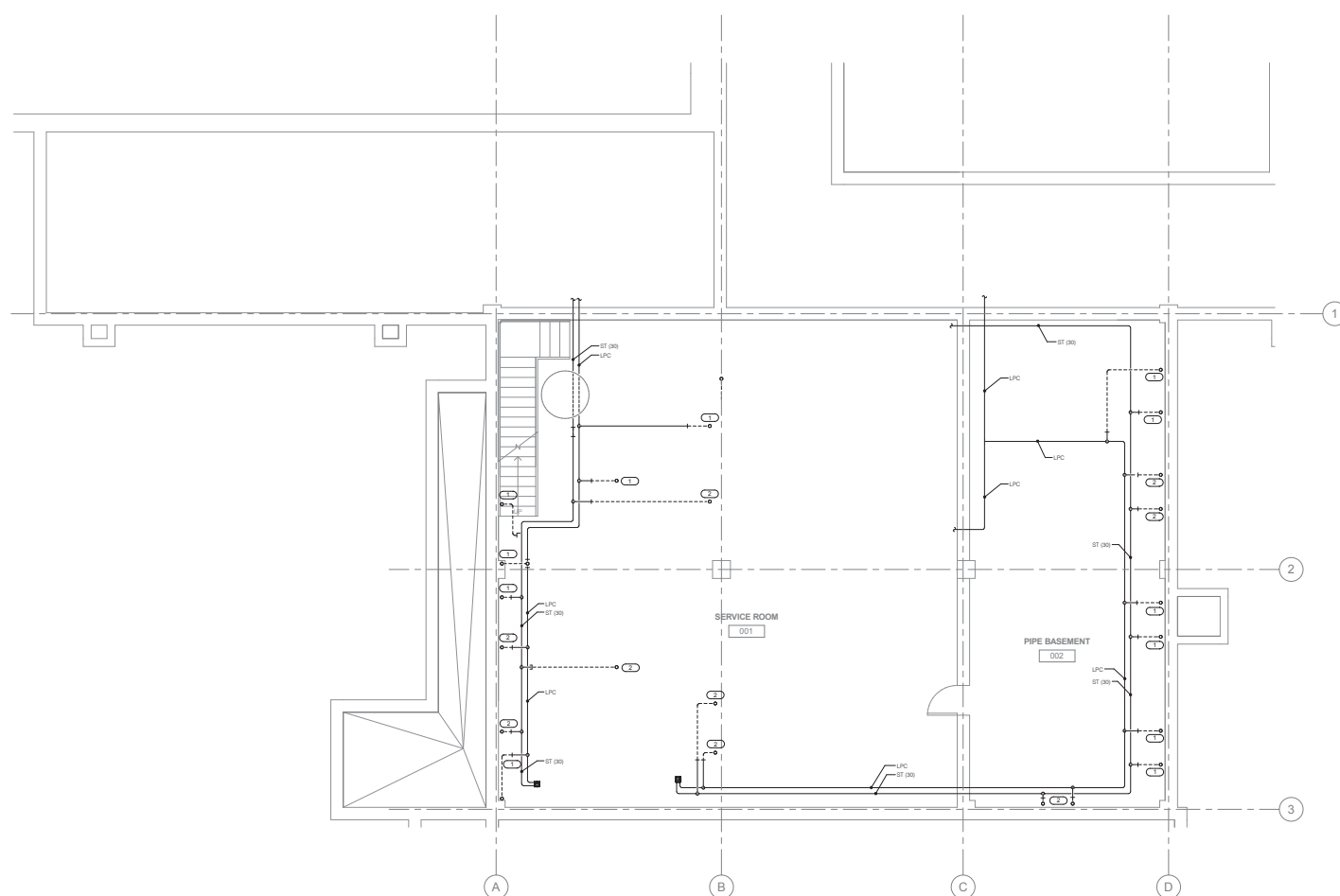
<p>Revisions:</p> <table><tr><td>1</td><td></td></tr><tr><td>2</td><td></td></tr><tr><td>3</td><td></td></tr><tr><td>4</td><td></td></tr><tr><td>5</td><td></td></tr><tr><td>6</td><td></td></tr><tr><td>7</td><td></td></tr><tr><td>8</td><td></td></tr><tr><td>9</td><td></td></tr></table>		1		2		3		4		5		6		7		8		9		<p>CONSULTANTS:</p> <p>ACQUA K. GARD REGISTERED PROFESSIONAL ENGINEER OF ILLINOIS EXPIRATION DATE: 11/30/2013</p> <p>KJ ENGINEERING CONSULTANTS 2715 E. 12TH AVE. SUITE 100 CHICAGO, IL 60605 KJ: 214.386.8888 WJ: 214.386.8888 www.kjeng.com</p> <p>STRUCTURAL / MECHANICAL / ELECTRICAL TECHNOLOGY / MEDICAL EQUIPMENT SOLUTIONS</p>	<p>ARCHITECT/ENGINEERS:</p> <p>COX DESIGN ASSOCIATES ARCHITECTURE PLANNING INTERIORS Austin 5121 Bay Coves Road, Suite 203 Austin, Texas 78756 Chicago 345 N. Canal St. Suite 301 Chicago, IL 60605 T: 512-327-4149 F: 512-327-7679 T: 312-499-3800 F: 312-424-9439 cove@coxdesign.com</p> <table><tr><td>Approved: Assistant Director</td><td>Approved: Chief of Staff</td><td>Approved: Chief, Engineering</td></tr><tr><td>Approved: Service Chief</td><td>Approved: Service Chief</td><td>Approved: Service Chief</td></tr><tr><td>Approved: Chief Bio-Med</td><td>Approved: Chief EMS</td><td>Approved: Chief, Infection Control</td></tr><tr><td>Approved: Chief IT</td><td>Approved: Chief MBO</td><td>Approved: Chief, Police</td></tr><tr><td>Approved: Chief Safety</td><td>Approved: Chief</td><td>Approved: Chief</td></tr></table>	Approved: Assistant Director	Approved: Chief of Staff	Approved: Chief, Engineering	Approved: Service Chief	Approved: Service Chief	Approved: Service Chief	Approved: Chief Bio-Med	Approved: Chief EMS	Approved: Chief, Infection Control	Approved: Chief IT	Approved: Chief MBO	Approved: Chief, Police	Approved: Chief Safety	Approved: Chief	Approved: Chief	<p>Drawing Title PLUMBING FIRST FLOOR PLAN</p> <p>Project Name RENOVATE MEN'S & WOMEN'S SHOWERS</p> <p>Project Number 556-13-125</p> <p>DATE 17 APRIL 2013</p> <p>Drawing Number P-102</p> <p>Building Number 132</p> <p>Checked RHC</p> <p>Drawn CAW</p> <p>Design of</p> <p>James A. Lovell FHCC 3001 GREEN BAY ROAD NORTH CHICAGO, IL 60064</p> <p>Office of Construction and Facilities Management Department of Veterans Affairs</p>
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2 PIPE SUPPORT DETAIL

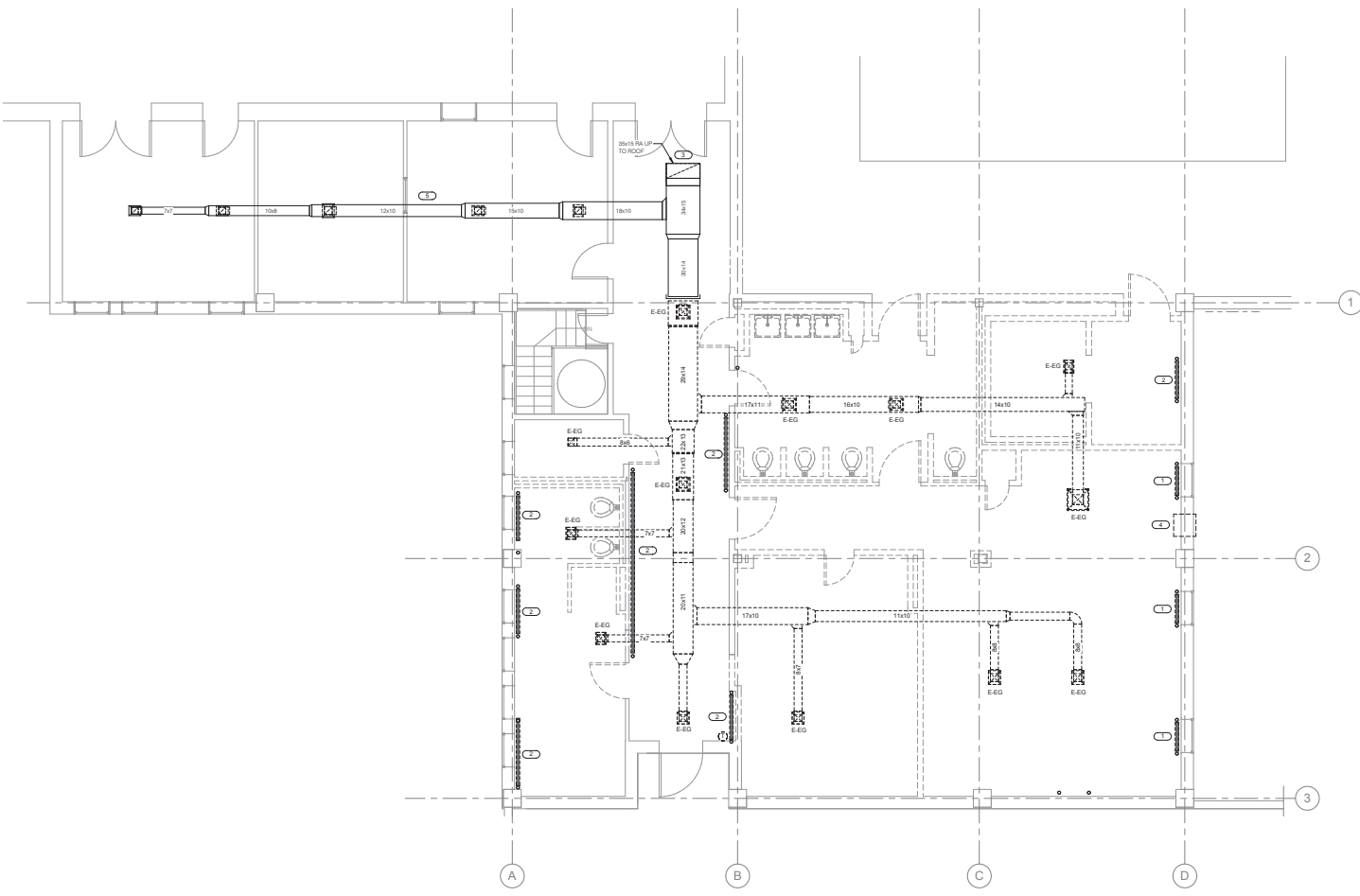
Project Name RENOVATE MEN'S & WOMEN'S SHOWERS			Project Number 556-13-125		Office of Construction and Facilities Management
			Date 17 APRIL 2013		
			Drawing Number P-501		
Building Number 132			Checked RHC		
Drawn CAW			Dept. of  Department of Veterans Affairs		

- REVISIONS:**
- | NO. | DESCRIPTION |
|-----|--|
| 1 | DISCONNECT AND REMOVE STEAM AND CONDENSATE PIPING AND STEAM TRAP CAP AT MAIN. |
| 2 | DISCONNECT AND REMOVE A PORTION OF STEAM AND CONDENSATE PIPING. SEE NEW WORK PLAN FOR NEW PIPE CONNECTIONS TO NEW EQUIPMENT. |



1 MECHANICAL BASEMENT DEMOLITION PLAN
1/8" = 1'-0"

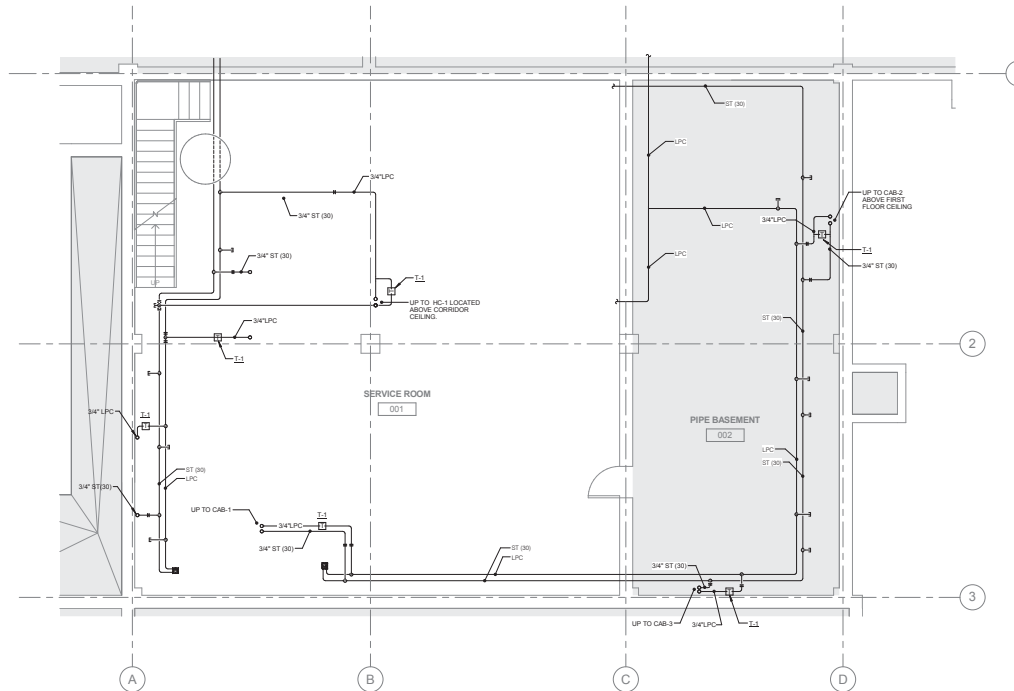
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Approved: Chief Safety	Approved: Chief	Approved: Chief																										



- GENERAL MECHANICAL NOTES:**
1. DISCONNECT AND REMOVE EXHAUST DUCTS AND GRILLES IN LOCKER ROOM AREA.
- REMARKS:**
1. DISCONNECT AND REMOVE PTAC. REMOVE STEAM AND CONDENSATE PIPING AND CAP BELOW FLOOR SLAB. PATCH PIPE OPENING IN FLOOR. PATCH PTAC OPENING IN WALL.
 2. DISCONNECT AND REMOVE STEAM/PTAC TUBE RADIATOR. CAP STEAM AND CONDENSATE PIPING BELOW FLOOR SLAB. PATCH PIPING OPENING IN FLOOR.
 3. DISCONNECT AND REMOVE EXISTING EXHAUST FAN ON ROOF. PROVIDE INSULATED WEATHER TIGHT CAP ON EXHAUST DUCT.
 4. DISCONNECT AND REMOVE WALL MOUNTED EXHAUST FAN. CAP OPENING IN WALL.
 5. DISCONNECT AND ABANDON EXHAUST DUCTWORK ABOVE OFFICE, EXERCISE ROOM AND PORTION OF CORRIDOR.

1 MECHANICAL FIRST FLOOR DEMOLITION PLAN
1/4" = 1'-0"

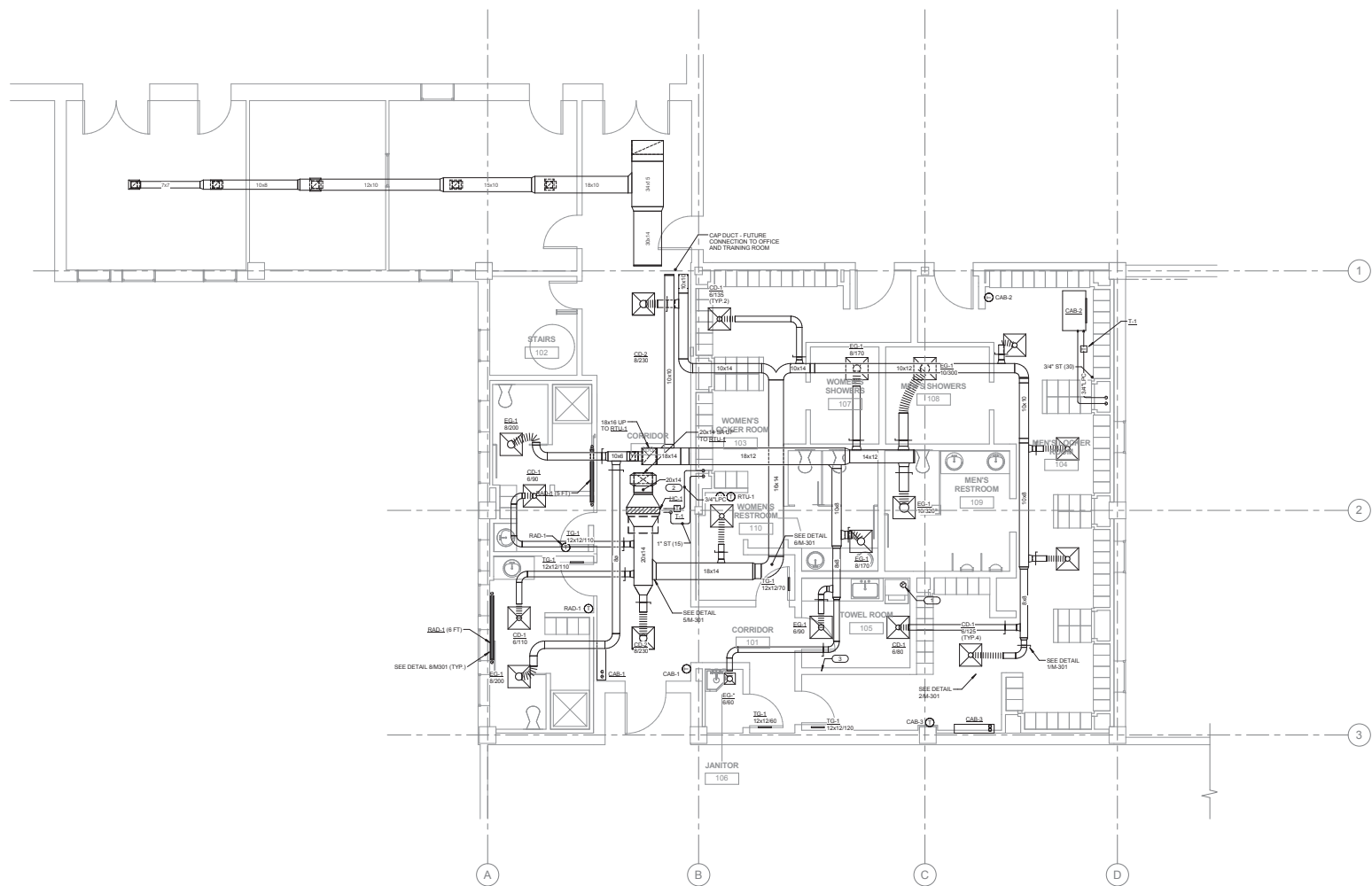
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1 MECHANICAL BASEMENT PLAN
1/4\"/>

EXPIRATION DATE: 11/30/2013 REGISTERED PROFESSIONAL ENGINEER STATE OF ILLINOIS 043-000000 6201 West Broadway Brookings Park, MN 55443 Tel: 763.333.5555 Fax: 763.333.7633		CONSULTANTS: KJW ENGINEERING CONSULTANTS 2775 E. 15th Avenue Suite 200 Aurora, CO 80013 Tel: 303.685.8888 Fax: 303.685.8888 www.kjw.com STRUCTURAL / MECHANICAL / ELECTRICAL TECHNOLOGY / MEDICAL EQUIPMENT SOLUTIONS		ARCHITECT/ENGINEERS: COX DESIGN ASSOCIATES ARCHITECTURE PLANNING INTERIORS Austin 5121 Bee Caves Road, Suite 203 Austin, Texas 78746 Chicago 345 N. Canal St. Suite 301 Chicago, IL 60605 Tel: 512.327.4149 Tel: 312.424.9439 Fax: 512.327.7079 Fax: 312.424.9439 ccoxdesign@austin.rr.com hcoxi@coxdesign.com			Approved: Assistant Director Approved: Service Chief Approved: Chief Bio-Med Approved: Chief IT Approved: Chief Safety Approved: Chief of Staff Approved: Service Chief Approved: Chief EMS Approved: Chief MBO Approved: Chief Approved: Chief, Engineering Approved: Service Chief Approved: Chief, Infection Control Approved: Chief, Police Approved: Chief			Drawing Title MECHANICAL BASEMENT PLAN 020359 JAMES A. LOVELL FHCC 3001 GREEN BAY ROAD NORTH CHICAGO, IL 60064		Project Name RENOVATE MEN'S & WOMEN'S SHOWERS Project Number 556-13-125 Date 17 APRIL 2013 Drawing Number M-100 Building Number 132 Checked RHC Drawn CAW Date of		Office of Construction and Facilities Management Department of Veterans Affairs	
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- REMARKS:**
1. PROVIDE 6" DRIVER VENT UP TO ROOF. SEE DETAIL 3M-30. TERMINATE VENT IN RM 105 IN CLOSE PROXIMITY TO LOCATION OF NEW DRIVER.
 2. SEE DETAIL 4M-30.
 3. PROVIDE REMOTE USER INTERFACE PANEL TO CONTROL OPERATION OF RTU-1.



1 MECHANICAL FIRST FLOOR PLAN
1/4" = 1'-0"

		CONSULTANTS: KJW ENGINEERING CONSULTANTS 2715 W. 12TH STREET, SUITE 200 CHICAGO, ILLINOIS 60604 TEL: 312.225.8888 FAX: 312.225.8889 WWW.KJWENGINEERING.COM		ARCHITECT/ENGINEERS: COX DESIGN ASSOCIATES ARCHITECTURE PLANNING INTERIORS Austin 5121 Bee Caves Road, Suite 203 Austin, Texas 78746 512.225.8888 Chicago 345 N. Canal St. Suite 701 Chicago, IL 60605 312.225.8888 Tel Fax 312.225.8888 312.225.8889 coxdesign@austin.tx.us coxdesign@chicago.il.us		<table border="1"><tr><td>Approved Assistant Director</td><td>Approved Chief of Staff</td><td>Approved Chief, Engineering</td></tr><tr><td>Approved Service Chief</td><td>Approved Service Chief</td><td>Approved Service Chief</td></tr><tr><td>Approved Chief Bio-Med</td><td>Approved Chief EMS</td><td>Approved Chief, Infection Control</td></tr><tr><td>Approved Chief IT</td><td>Approved Chief MBO</td><td>Approved Chief, Police</td></tr><tr><td>Approved Chief Safety</td><td>Approved Chief</td><td>Approved Chief</td></tr></table>		Approved Assistant Director	Approved Chief of Staff	Approved Chief, Engineering	Approved Service Chief	Approved Service Chief	Approved Service Chief	Approved Chief Bio-Med	Approved Chief EMS	Approved Chief, Infection Control	Approved Chief IT	Approved Chief MBO	Approved Chief, Police	Approved Chief Safety	Approved Chief	Approved Chief	<table border="1"><tr><td colspan="2">Drawing Title MECHANICAL FIRST FLOOR PLAN</td></tr><tr><td colspan="2">223559 JAMES A. LOVELL FHCC 3001 GREEN BAY ROAD NORTH CHICAGO, IL 60064</td></tr></table>		Drawing Title MECHANICAL FIRST FLOOR PLAN		223559 JAMES A. LOVELL FHCC 3001 GREEN BAY ROAD NORTH CHICAGO, IL 60064		<table border="1"><tr><td colspan="2">Project Name RENOVATE MEN'S & WOMEN'S SHOWERS</td></tr><tr><td colspan="2">Project Number 556-13-125</td></tr><tr><td colspan="2">Date 17 APRIL 2013</td></tr><tr><td colspan="2">Drawing Number M-101</td></tr><tr><td>Building Number 132</td><td>Checked RHC</td><td>Drawn CAW</td><td>Design df</td></tr></table>		Project Name RENOVATE MEN'S & WOMEN'S SHOWERS		Project Number 556-13-125		Date 17 APRIL 2013		Drawing Number M-101		Building Number 132	Checked RHC	Drawn CAW	Design df	<table border="1"><tr><td colspan="2">Office of Construction and Facilities Management</td></tr><tr><td colspan="2">Department of Veterans Affairs</td></tr></table>		Office of Construction and Facilities Management		Department of Veterans Affairs	
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CABINET HEATER SCHEDULE - STEAM

SYMBOL	SERVICE	TYPE	NOMINAL CFM	EAT °F	LAT °F	MSH	STEAM PSIG (NOTE 1)	LSHR	CABINET				ELECTRICAL				MANUFACTURER	MODEL	REMARKS
									H	W	D	FAN HP	VOLT/ PHASE/ WIRE	DISCONNECT		CONTROLLER STARTER			
														BY (NOTE A)	TYPE (NOTE B)				
CAB-1	CORRIDOR	FLOOR-SLOPE TOP	1,880	60	87	30.8	10.0	32.3	28.5	43	9.5	1/10	120/1	MFR	NF	MFR	VULCAN	FS-43	NOTE 1
CAB-2	MEN'S LOCKER	RECESSED CEILING	1,880	60	87	22.1	10.0	23.2	28.5	43	9.5	1/10	120/1	MFR	NF	MFR	VULCAN	RC-42	NOTE 1
CAB-3	MEN'S LOCKER	FLOOR-SLOPE TOP	1,880	60	87	30.8	10.0	32.3	28.5	43	9.5	1/10	120/1	MFR	NF	MFR	VULCAN	FS-43	NOTE 1

NOTES:
1. COORDINATE COLOR SELECTION WITH ARCHITECT.

RADIATION SCHEDULE - STEAM

SYMBOL	SERVICE	MSHLF	ELEMENT				NO. OF ROWS	FINS PER ROW	CABINET			STEAM PSIG (NOTE 3)	CONTROL TYPE/SENSOR	MANUFACTURER	MODEL	REMARKS
			MAT'L	LENGTH	PIPE SIZE	FIN HEIGHT & WIDTH			LENGTH	HEIGHT	DEPTH					
RAD-1	LOCKER ROOMS	1170	STEEL	SEE PLAN	1	3/8" X 3/32"	1	40	SEE PLAN	11-71/64	3/8" DE	10	T-STAT	VULCAN	JV2-AR11	NOTE 1

NOTES:
1. SEE SPECIFICATION SECTION 23 09 00 FOR DESCRIPTION OF CONTROL TYPE/SENSOR.
2. STEAM PRESSURE INDICATED IS THE PRESSURE AVAILABLE DOWNSTREAM OF THE CONTROL VALVE.

GRILLES REGISTERS & DIFFUSERS SCHEDULE

SYMBOL	MAT'L	TYPE	MARGIN (NOTE 1)	INLET SIZE (INCH)	FACE SIZE (INCH)	VOLUME DAMPER (REQ'D)	FINISH	MANUFACTURER	MODEL	REMARKS
GD-1	ALUMINUM	PANEL FACE	LAY-IN	SEE DWG.	24x24	NO	WHITE	TITUS	OMN-AA	FLUSH FACE PANEL
GD-2	STEEL	PANEL FACE	1-1/4"	SEE DWG.	24x24	NO	WHITE	TITUS	OMN	FLUSH FACE PANEL
GD-3	ALUMINUM	PERFORATED FACE	LAY-IN	SEE DWG.	24x24	NO	WHITE	CARNES	SLRS	DUCTED RETURN
TD-1	STEEL	LOUVERED	1-1/4"	SEE DWG.	SEE PLAN	NO	WHITE	TITUS	T700	PROVIDE AUXILIARY FRAME

NOTES:
1. CONTRACTOR SHALL DETERMINE PROPER MARGIN STYLE TO MATCH CEILING CONSTRUCTION.
2. ALL RUN-OUT DUCTWORK TO DIFFUSERS SHALL BE NECK SIZE UNLESS OTHERWISE NOTED.

COIL SCHEDULE - STEAM HEATING

SYMBOL	SERVICE	CFM	SIZE L X H (IN)	EAT °F	LAT °F	MSH	STEAM PSIG (NOTE 1)	LSHR	A.P.D. IN W.C.	MANUFACTURER	MODEL	REMARKS
HC-1	RTU-1	1,180	36x15	42	95	70	10	73	0.06	DAIKIN MCQUAY	SLA1001A	

NOTES:
1. STEAM PRESSURE INDICATED IS THE PRESSURE AVAILABLE DOWNSTREAM OF THE CONTROL VALVE.

TRAP SCHEDULE

SYMBOL	SERVICE	TYPE	SAFETY FACTOR	SIZE	LSHR (NOTE 1)	PRESSURE DIFFERENTIAL	MANUFACTURER	MODEL	REMARKS
T-1	DRIP	DRIP (HC-1) CAB	3:1	3/4"	225	0	ARMSTRONG	12543	NOTES 2, 3 & 4

NOTES:
1. CAPACITY LISTED IS FOR EACH TRAP AND INCLUDES SAFETY FACTOR.
2. SUITABLE TO 125 PSIG, SIZE INLET & OUTLET, 80 FLAT MECHANISM AND VALVE, CAST IRON BODY, BALANCED PRESSURE THERMOSTATIC AIR VENT, ALL INTERNALS REPLACEMENT IN-LINE.
3. CAPACITY AT OTHER DIFFERENTIAL PRESSURES SHALL BE AT LEAST 828RHR AT 10 PSIG, AND 1028RHR AT 75 PSIG, 1/10" ORIFICE.
4. WITH INTERNAL VACUUM BREAKER.

SCHEDULE GENERAL NOTES:

A. DISCONNECT AND CONTROLLER STARTER FURNISHED AND INSTALLED BY:
MFR = MANUFACTURER
EC = ELECTRICAL CONTRACTOR
MC = FURNISHED BY MECHANICAL CONTRACTOR, INSTALLED BY ELECTRICAL CONTRACTOR
MFR/EC = FURNISHED LOOSE BY MANUFACTURER, INSTALLED BY ELECTRICAL CONTRACTOR
ATC = AUTOMATIC TEMPERATURE CONTROL CONTRACTOR

B. DISCONNECT TYPE:
F = FUSED
NF = NON-FUSED

C. CONTROLLER STARTER TYPE:
PV = FULL VOLTAGE
WYE = WYE DELTA
SS = SOLID STATE (GIFT START)
MS = MANUAL STARTER
VFD = VARIABLE FREQUENCY DRIVE
VFD/B = VARIABLE FREQUENCY DRIVE WITH BYPASS

D. FAN RPM SHALL NOT EXCEED 110% OF SCHEDULED VALUE WITH THE SCHEDULED WHEEL TYPE. SUBSTITUTION OF B8 OR B9A FANS FOR FC IS ACCEPTABLE IF EFFICIENCY IS NOT LOWER.

E. NO EQUIPMENT SHALL BE SELECTED ABOVE 90% OF MOTOR NAME PLATE RATING.

F. MUST BE WITHIN +/- 10% OF SCHEDULED RPM.

G. CURB TYPE:
MFR = STANDARD CURB BY MANUFACTURER
GC = BY GENERAL CONTRACTOR
SAC = SOUND ATTENUATOR CURB

ROOFTOP UNIT SCHEDULE

SYMBOL	SERVICE	RTU-1
SUPPLY FAN		LOCKER ROOMS
		CFM 1,260
		MINIMUM CFM 1,260
		EXTERNAL STATIC PRESSURE 1.50
		TYPE SW61 AF
		FAN RPM (NOTE C) 2,307
		BHP (NOTE E) 1.27
		MHP (NOTE E) 2.3
RETURN FAN		CFM 1,880
		MINIMUM CFM 1,880
		EXTERNAL STATIC PRESSURE 1.00
		TYPE SW61 AF
		FAN RPM (NOTE C) 1,983
		BHP (NOTE E) 0.99
		MHP (NOTE E) 2.3
MINIMUM OUTSIDE AIR CFM		1,880
ENERGY RECOVERY WHEEL		
		OUTDOOR AIR TEMP °F (WINTER) -10
		EXHAUST AIR TEMP °F (WINTER) 70
		WHEEL LEAVING TEMP °F (WINTER) 51.6
		RECOVERED CAPACITY MSH (WINTER) 144.6
		OUTDOOR AIR TEMP °F (SUMMER) 95
		EXHAUST AIR TEMP °F (SUMMER) 75
		WHEEL LEAVING TEMP °F (SUMMER) 75.1
		RECOVERED CAPACITY MSH (SUMMER) 65.712
		SENSIBLE EFFECTIVENESS (SUMMER & WINTER) 0.78
		WHEEL PRESSURE DROP 0.6
HEAT PUMP COIL - DX		
		EAT °F DB (SUMMER) 79.1
		MAX. LAT °F DB (SUMMER) 65.3
		LAT °F WB (SUMMER) 60
		TOTAL MSH (SUMMER) 80.2
		REFRIGERANT R410A
		EER 12.3
		CIRCUITING NOTE 3
HOT GAS REHEAT COIL		
		EAT °F DB (SUMMER) 90.3
		EAT °F WB (SUMMER) 90.3
		MAX. LAT °F DB (SUMMER) 70
		MAX. LAT °F WB (SUMMER) 58.1
		TOTAL MSH (SUMMER) 396.1
FILTER		
		TYPE - PRE 4"
		TYPE - FINAL 2" MERV 7
		VELOCITY PRE/FINAL 169
ELECTRICAL		
		VOLT-PHASE 208-3
		MCA 37.6
		MCOF APPR 46
		DISCONNECT BY (NOTE A) MFR
		DISCONNECT TYPE (NOTE B) NF
		CONTROLLER/STARTER BY (NOTE A) MFR
MANUFACTURER		DAIKIN MCQUAY
MODEL NUMBER		DP8007A
REMARKS		SEE BELOW

NOTES:
1. PROVIDE ENERGY WHEEL, FROST PROTECTION AND BYPASS DAMPERS TO ALLOW FOR FREE COOLING WHEN ON EXHAUSTY CONDITIONS ARE APPROPRIATE.
2. PROVIDE STAINLESS STEEL DRAIN PAN.
3. PROVIDE MODULATING CONTROL WITH INVERTER COMPRESSORS.
4. INCLUDES 6.8" PRESSURE DROP FOR FILTER LOADING.
5. PROVIDE HEAT PUMP HEATING FOR FIRST STAGE HEATING.
6. PROVIDE HOT GAS REHEAT COIL.
7. PROVIDE UNIT MOUNTED ODC CONTROL PANEL AND REMOTE USER INTERFACE PANEL.

ARCHITECT/ENGINEERS: COX DESIGN ASSOCIATES ARCHITECTURE PLANNING INTERIORS Austin 5121 Bee Caves Road, Suite 203 Austin, Texas 78746 Chicago 345 N. Canal St. Suite 301 Chicago, IL 60605 Tel: 512-327-1140 Fax: 512-327-7079 covec@coxdesign.com		CONSULTANTS: KJW ENGINEERING REGISTERED PROFESSIONAL ENGINEER 5201 West Broadway Broadway Park, MN 55443 Tel: 612-333-9913 Fax: 612-333-9921 www.kjw-engineer.com		STRUCTURAL MECHANICAL ELECTRICAL TECHNOLOGY MEDICAL EQUIPMENT SOLUTIONS		Approved: Assistant Director Approved: Service Chief Approved: Chief Bio-Med Approved: Chief IT Approved: Chief Safety		Approved: Chief of Staff Approved: Service Chief Approved: Chief EMS Approved: Chief MRO Approved: Chief		Approved: Chief, Engineering Approved: Service Chief Approved: Chief, Infection Control Approved: Chief Approved: Chief		Drawing Title MECHANICAL SCHEDULES 220359 JAMES A. LOVELL FHCC 3001 GREEN BAY ROAD NORTH CHICAGO, IL 60064		Project Name RENOVATE MEN'S & WOMEN'S SHOWERS Building Number 132 Checked RHC Draw CAW Date of		Project Number 556-13-125 DATE 17 APRIL 2013 Drawing Number M-501 Date of		Office of Construction and Facilities Management Department of Veterans Affairs	
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DOAS REPORT GENERATION:

FACS SHALL MONITOR THE FOLLOWING POINTS ON 5 MINUTE (ADJ.) INTERVALS WITHIN A SINGLE TREND (THE TREND SHALL RUN ON A CONTINUOUS BASIS):

DATE
TIME
GLOBAL OUTSIDE AIR TEMP (°F)
GLOBAL OUTSIDE AIR RELATIVE DEWPOINT (°F)
SUPPLY AIR TEMPERATURE LEAVING WHEEL (°F)
SUPPLY AIR RELATIVE HUMIDITY LEAVING WHEEL (WUH)
SUPPLY AIR TEMP (°F)
SUPPLY AIR TEMP SETPOINT (°F)
EXHAUST AIR TEMPERATURE ENTERING UNIT (°F)
EXHAUST AIR RELATIVE HUMIDITY ENTERING UNIT (WUH)
EXHAUST AIR TEMPERATURE EXITING UNIT (°F)
EXHAUST AIR RELATIVE HUMIDITY EXITING UNIT (WUH)
SUPPLY AIRFLOW (CFM)
EXHAUST AIRFLOW (CFM)
ENERGY RECOVERY WHEEL STATUS
GAS VALVE POSITION (PL OPEN)
REFRIGERATION COMPRESSOR STATUS/BISEPIED

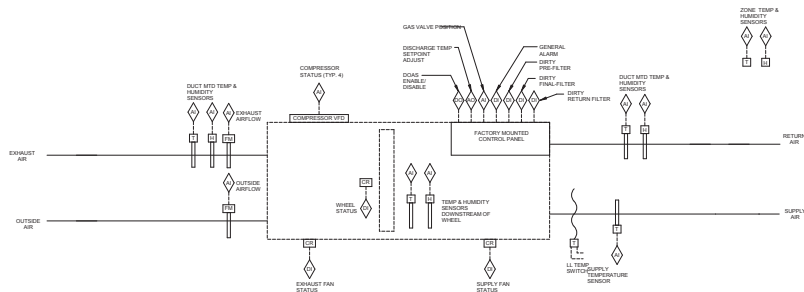
ENERGY RECOVERY HEATING CAPACITY (BTU/S) (CALCULATED BASED ON AIRFLOW AND UPSTREAM/DOWNSTREAM TEMPERATURE DIFFERENTIAL AT ENERGY RECOVERY DEVICE)

THIS INFORMATION SHALL BE ACCESSIBLE TO VIEW IN EITHER TABULAR OR GRAPHICAL FORM ON THE FACS OPERATOR INTERFACE.

ONCE PER MONTH, THE FACS SHALL RECORD THE LARGEST HEATING AND COOLING SYSTEM LOAD (IN BTU/S) WHICH OCCURRED DURING THAT MONTH, THE DATE, TIME, OUTSIDE AIR TEMPERATURE, SUPPLY FAN AIRFLOW, AND RETURN FAN AIRFLOW THAT COINCIDED WITH THAT EVENT SHALL ALSO BE RECORDED. THIS INFORMATION SHALL BE STORED TO A MEMORY LOCATION ON THE FACS OPERATOR INTERFACE THAT IS MAINTAINED (NOT AUTOMATICALLY OVERWRITTEN).

2 RTU-1 REPORT GENERATION

NO SCALE



1 DEDICATED OUTSIDE AIR UNIT (DOAS) CONTROL - RTU-1

NO SCALE

DOAS SEQUENCE OF OPERATION

GENERAL

THE DOAS IS A FACTORY ASSEMBLED, 100% OUTSIDE AIR CONSTANT VOLUME, ENERGY RECOVERY UNIT CONSISTING OF AN ENERGY RECOVERY WHEEL, HOT GAS BYPASS COIL, AND VARIABLE SPEED HEAT PUMP COMPRESSOR REFRIGERANT SYSTEM. THE UNIT SHALL BE CONTROLLED BY A FACTORY MOUNTED DDC CONTROL PANEL AND IS TO BE CONNECTED TO THE FACILITY MANAGEMENT CONTROL SYSTEM (FACS). THE DOAS MANUFACTURER SHALL PROVIDE ALL COMPONENTS REQUIRED TO ACHIEVE THE SEQUENCE OF OPERATION DESCRIBED BELOW.

WHEN DOAS IS INITIATED TO RUN BY THE LOCAL CONTROL PANEL, THE DOAS CONTROL PANEL SHALL ENABLE THE FOLLOWING TO OCCUR:

TWO POSITION EXHAUST AIR DAMPER SHALL OPEN.
TWO POSITION OUTSIDE AIR DAMPER SHALL OPEN.
SUPPLY FAN SHALL BE ENABLED TO RUN AFTER A 30 SECOND DELAY (ADJ.)
WHEN THE SUPPLY FAN HAS STARTED THE EXHAUST FAN SHALL START.
ENERGY RECOVERY WHEEL SHALL BE ENERGIZED.

SUPPLY AIR CONTROL

WHENEVER THE SUPPLY AIR TEMPERATURE IS ABOVE SETPOINT, THE FOLLOWING SHALL OCCUR IN SEQUENCE:
THE HEATING SHALL BE DISABLED.
COOLING SHALL BE ENABLED AS REQUIRED TO MAINTAIN DISCHARGE AIR SETPOINT.

WHENEVER THE DISCHARGE AIR TEMPERATURE IS BELOW SETPOINT, THE FOLLOWING SHALL OCCUR IN SEQUENCE:
COOLING SHALL BE DISABLED.
HEATING SHALL BE ENABLED AS REQUIRED TO MAINTAIN DISCHARGE AIR SETPOINT.

IN ADDITION TO THE MODULATION OF THE HEATING AND COOLING, THE ENERGY RECOVERY WHEEL SHALL OPERATE AS FOLLOWS:

ENERGY RECOVERY WHEEL/VD AND BYPASS DAMPER

WHEN THE EXHAUST AIR TEMPERATURE UPSTREAM OF THE ENERGY RECOVERY WHEEL IS GREATER THAN THE OUTSIDE AIR TEMPERATURE AND THE OUTSIDE AIR TEMPERATURE IS LESS THAN THE SUPPLY AIR SETPOINT TEMPERATURE, MODULATE THE BYPASS DAMPER AS REQUIRED SUCH THAT THE SUPPLY AIR SETPOINT TEMPERATURE IMMEDIATELY DOWNSTREAM OF THE ENERGY RECOVERY WHEEL DOES NOT EXCEED THE SUPPLY AIR SETPOINT. ENERGY RECOVERY WHEEL SHALL BE OPERATING VIA COMMAND FROM THE UNIT DDC CONTROL PANEL.

WHEN THE EXHAUST AIR TEMPERATURE UPSTREAM OF THE ENERGY RECOVERY WHEEL IS GREATER THAN THE OUTSIDE AIR TEMPERATURE AND THE OUTSIDE AIR TEMPERATURE IS GREATER THAN THE SUPPLY AIR SETPOINT, THE BYPASS DAMPER SHALL BE FULLY OPEN. ENERGY RECOVERY WHEEL SHALL BE STOPPED.

WHEN THE EXHAUST AIR TEMPERATURE UPSTREAM OF THE ENERGY RECOVERY WHEEL IS LESS THAN THE OUTSIDE AIR TEMPERATURE, THE BYPASS DAMPER SHALL BE CLOSED.

WHEN THE EXHAUST AIR TEMPERATURE UPSTREAM OF THE ENERGY RECOVERY WHEEL IS GREATER THAN THE EXHAUST AIR TEMPERATURE (LAT) ABOVE THE DEWPOINT OF THE EXHAUST AIR UPSTREAM OF THE UNIT.

MODULATE THE WHEEL VFD AS REQUIRED TO MAINTAIN FROST FREE CONDITIONS ON THE WHEEL.

UNIT SHUTDOWN

THE SUPPLY AIR AND EXHAUST AIR FANS SHALL STOP, OUTSIDE AIR DAMPERS AND EXHAUST AIR DAMPERS SHALL CLOSE. THE ENERGY RECOVERY WHEEL SHALL STOP.

ALARMS, INTERLOCKS, AND SAFETIES

UNIT SHALL SHUT DOWN UPON FAILURE OF ANY OF THE INTERNAL SAFETY DEVICES AND/OR UPON A SIGNAL FROM THE LOW LIMIT TEMPERATURE SWITCH (SET AT 40°F ADJ.). THE LOW LIMIT TEMPERATURE SWITCH SHALL BE WIRED DIRECTLY TO THE UNIT DDC CONTROLLER AND SHALL REQUIRE A MANUAL RESET PRIOR TO SYSTEM RESTART.

THE UNIT SHALL SHUT DOWN UPON ACTIVATION OF THE SYSTEM SMOKE DETECTOR.

SEND AN ALARM TO THE LOCAL CONTROLLER UPON THE OCCURRENCE OF ANY OF SHUT-DOWN CONDITIONS.

DOAS SEQUENCE OF OPERATION (CONTROLS PROVIDED BY TCC)

THE TCC SHALL EXTEND THE FACS NETWORK TO THE DOAS UNITARY CONTROLLER PER THE PROTOCOL SPECIFIED IN SECTION 23 (B.1). THE TCC SHALL PROVIDE ALL ADDITIONAL CONTROL COMPONENTS REQUIRED TO ACCOMPLISH THE SEQUENCE OF OPERATION LISTED BELOW:

BUILDING OCCUPANCY SCHEDULING

FACS SHALL BE PROGRAMMED WITH THE FOLLOWING TENTATIVE OCCUPANCY SCHEDULE:

OCCUPIED MODE:			
MONDAY THROUGH FRIDAY	6:00AM-8:00PM(ADJ.)	70°F WINTER	78°F SUMMER
UNOCCUPIED MODE:			
MONDAY THROUGH FRIDAY	8:00PM-5:00AM(ADJ.)	60°F WINTER	85°F SUMMER
SATURDAY THROUGH SUNDAY	ALL DAY		

UNOCCUPIED OPERATION

WHEN THE UNOCCUPIED SPACE TEMPERATURE IS SATISFIED, THE DOAS SHALL NOT OPERATE. WHENEVER THE UNOCCUPIED SPACE TEMPERATURE FALLS BELOW 60°F (ADJ.) OR ABOVE 85°F (ADJ.), THE UNIT SHALL BE ENABLED IN 10% RECIRCULATION MODE AND SHALL RUN UNTIL UNOCCUPIED SPACE TEMPERATURE IS SATISFIED.

OCCUPIED OPERATION

DOAS SHALL BE ENABLED TO RUN AS SPECIFIED ABOVE TO MAINTAIN OCCUPIED SPACE TEMPERATURE SETPOINT.

SUPPLY AIR SETPOINT

SUPPLY AIR TEMP SHALL BE SET AT THE FACS FOR 65°F (ADJ.) WINTER AND 65°F (ADJ.) SUMMER.

ALARMS, INTERLOCKS, AND SAFETIES

WHEN FIRE ALARM CONTROL PANEL INDICATES AN ALARM CONDITION OR SYSTEM DUCT SMOKE DETECTOR ACTIVATES, DOAS SHALL BE SHUTDOWN.

THE FOLLOWING CONDITIONS SHALL SHUTDOWN THE DOAS AND SHALL INDICATE AN ALARM CONDITION AT THE FACS WORKSTATION:

WHEN ANY ONE FOOT SECTION OF THE MANUAL RESET LOW LIMIT TEMP SWITCH SENSES AN AIR TEMP < 40°F.
IF A FAN CURRENT SENSOR DOES NOT PROVIDE FAN OPERATION.
IF THE ENERGY WHEEL IS DISABLED TO OPERATE AND THE CURRENT SENSOR SWITCH DOES NOT PROVIDE ENERGY WHEEL OPERATION.

THE FOLLOWING CONDITIONS SHALL INDICATE AN ALARM AT THE FACS, HOWEVER DOAS SHALL CONTINUE TO OPERATE:
DIFFERENTIAL PRESSURE SWITCH ACROSS PRE-FILTER BANK EXCEEDS 0.8 INCHES W.G. (ADJ.)
DIFFERENTIAL PRESSURE SWITCH ACROSS FINAL FILTER BANK EXCEEDS 1.0 INCHES W.G. (ADJ.)
DIFFERENTIAL PRESSURE SWITCH ACROSS RETURN FILTER BANK EXCEEDS 1.5 INCHES W.G. (ADJ.)
OUTDOOR AIR FLOW RATE FALLS BELOW 10% OF DESIGN FLOW RATE.

3 RTU-1 SEQUENCE OF OPERATION

NO SCALE

		CONSULTANTS: KJWW ENGINEERING CONSULTANTS 271 GARDEN CITY CHICAGO, ILLINOIS 60606 TEL: 312.327.1149 FAX: 312.327.7079 www.kjww.com STRUCTURAL / MECHANICAL / ELECTRICAL TECHNOLOGY / MEDICAL EQUIPMENT SOLUTION		ARCHITECT/ENGINEERS: COX DESIGN ASSOCIATES ARCHITECTURE PLANNING INTERIORS Austin 5121 Bay Coves Road, Suite 203 Austin, Texas 78750 Chicago 345 N. Canal St. Suite 301 Chicago, IL 60605 Tel: 312.327.1149 Fax: 312.327.7079 cove@coxdesign.com coxdesign@austin.tx.us coxdesign@chicago.il.us		Approved: Assistant Director Approved: Service Chief Approved: Chief Bio-Med Approved: Chief IT Approved: Chief Safety		Approved: Chief of Staff Approved: Service Chief Approved: Chief EMS Approved: Chief MRO Approved: Chief		Approved: Chief, Engineering Approved: Chief, Infection Control Approved: Chief, Police Approved: Chief		Drawing Title CONTROL DIAGRAMS 220359 JAMES A. LOVELL FHCC 3001 GREEN BAY ROAD NORTH CHICAGO, IL 60064		Project Name RENOVATE MEN'S & WOMEN'S SHOWERS Building Number 132 Checked RHC Drawn CAW Date 17 APRIL 2013 Drawing Number M-601 Dept. of VA FORM 08-6231		Project Number 556-13-125 SBS 17 APRIL 2013 Office of Construction and Facilities Management Department of Veterans Affairs	
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ELECTRICAL LIGHTING SYMBOL LIST	
SYMBOL	DESCRIPTION
REFER TO LUMINAIRE SCHEDULE FOR DIMENSIONS AND TYPES	
	SINGLE POLE SWITCH
	WALL MOUNT OCCUPANCY SWITCH
	OCCUPANCY SENSOR, DUAL TECHNOLOGY
	OCCUPANCY SENSOR, INFERRED
	OCCUPANCY SENSOR, ULTRASONIC
	2' X 4' LUMINAIRE
	1' X 4' LUMINAIRE
	2' X 2' LUMINAIRE
	2' X 4' LUMINAIRE
	DOWNLIGHT
	SINGLE FACE EXIT SIGN
	DOUBLE FACE EXIT SIGN
	SHADED DEVICE INDICATES EMERGENCY POWER
	SHADING INDICATES ILLUMINATED FACES
	ARROWS INDICATE DIRECTION TO EXIT

ELECTRICAL POWER SYMBOL LIST	
SYMBOL	DESCRIPTION
	DUPLEX RECEPTACLE
	GROUND FAULT DUPLEX RECEPTACLE
	SPECIAL 208V, 1PH RECEPTACLE. SEE MATERIAL LIST
	ELECTRICAL CONNECTION, WALL MOUNTED
	ELECTRICAL CONNECTION, CEILING OR FLOOR MOUNTED
	JUNCTION BOX, WALL MOUNTED
	DISCONNECT SWITCH
	SURFACE MOUNTED PANELBOARD
	FLUSH MOUNTED PANELBOARD
	INFORMATION OUTLET

ELECTRICAL SYSTEM SYMBOL LIST	
SYMBOL	DESCRIPTION
	FIRE ALARM - ANNUNCIATOR
	FIRE ALARM - CONTROL PANEL
	FIRE ALARM - VISUAL DEVICE
	FIRE ALARM - MANUAL PULL STATION
	FIRE ALARM - AUDIOVISUAL DEVICE
	FIRE ALARM - SMOKE DETECTOR
	PUSH PAD
	ALARM BELL

- GENERAL ELECTRICAL NOTES**
- "1/300" INDICATES DETAIL NUMBER SHEET NUMBER.
 - SEE** INDICATES ELECTRICAL EQUIPMENT DEFINED IN ELECTRICAL SCHEDULES. REFER TO DRAWINGS CONTAINING ELECTRICAL SCHEDULES. PERMANENT NAMEPLATE SHALL MATCH FINAL EQUIPMENT NOMENCLATURE. NOT ELECTRICAL EQUIPMENT TAG NAME. REFER TO SPECIFICATIONS.
 - INDICATES KEYED NOTE USED TO DESCRIBE ADDITIONAL INFORMATION OF WORK REQUIRED. SPECIFY TO THE SHEET AND/OR DETAIL. IT IS BROWN WITH.
 - "NL" INDICATES LUMINAIRE IS UNBUSHED FOR NIGHT LIGHT.
 - "SE" INDICATES SWITCHED EMERGENCY.
 - ALL ELECTRICAL CONDUCTORS SHALL BE COPPER.
 - LUMINAIRE KEY:
 F1 = FIXTURE TAG
 1 = CIRCUIT NUMBER
 A = SWITCH NUMBER
 NL = SUBSCRIPT (IF APPLICABLE)
 IF LABEL IS ORIENTED HORIZONTALLY A / WILL SEPARATE THIS INFORMATION EX: F1 (1) A / NL
 - DEVICE KEY:
 A = MOUNTING (IF APPLICABLE)
 1 = CIRCUIT NUMBER
 - ABBREVIATION KEY:
 E.C. ELECTRICAL CONTRACTOR
 M.C. MECHANICAL CONTRACTOR
 G.C. GENERAL CONTRACTOR
 AFF ABOVE FINISH FLOOR
 C CONDUIT
 TYP TYPICAL
 MOUNTING HEIGHT FROM FINISHED FLOOR TO CENTERLINE
 - MOUNTING SUBSCRIPT KEY:
 RECEPTACLES AND TELECOMMUNICATIONS OUTLETS
 A MOUNT ABOVE COUNTER (H" TO CENTERLINE ABOVE COUNTER OR BACKPLASH)
 A SLASH IS USED BETWEEN TWO SUBSCRIPTS W/ AH REFER TO MATERIAL LIST AND SPECIFICATIONS FOR FULL DESCRIPTIONS AND MANUFACTURERS OF ALL DEVICES.
 - LINE TYPE KEY:
 _____ NEW WORK BY THIS CONTRACTOR (DARK SOLID LINE)
 - - - - - NEW WORK UNDER FLOOR OR UNDERGROUND BY THIS CONTRACTOR (DARK LONG DASHED LINE)
 _____ NEW WORK BY OTHERS AND/OR EXISTING TO REMAIN (LIGHT SOLID LINE)
 - - - - - EXISTING TO BE REMOVED BY THIS CONTRACTOR (DARK SHORT DASHED LINE)

LUMINAIRE SYMBOL KEY	
SYMBOL	DESCRIPTION
	NORMAL BRANCH LUMINAIRE
	EMERGENCY BRANCH LUMINAIRE

- ELECTRICAL INSTALLATION NOTES**
- THE COMPLETE INSTALLATION SHALL BE IN ACCORDANCE WITH THE ADAS (AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES).
 - CIRCUIT NUMBERS ARE SHOWN FOR CIRCUIT IDENTIFICATION. CIRCUITING SHALL AGREE WITH NUMBERING ON THE PANEL PROVIDED. COMMON NEUTRALS MAY NOT BE USED FOR BRANCH CIRCUITS. BALANCE THE LOAD ON PANEL AS EVENLY AS POSSIBLE BETWEEN EACH PHASE.
 - A #10 GREEN INSULATED GROUND CONDUCTOR SHALL BE INSTALLED WITH CIRCUIT CONDUCTORS TO ALL RECEPTACLES AND LIGHTING.
 - CONCEAL ALL CONDUIT IN WALLS, PARTITIONS, ABOVE CEILING, AND IN FLOOR BUIL. ETC. UNLESS OTHERWISE INDICATED ON THE PLAN OR IN THE SPECIFICATIONS. CONDUIT IN MECHANICAL ROOMS, AND STORAGE ROOMS WITHOUT CEILING MAY BE EXPOSED ON BUILDING STRUCTURE.
 - BOXES LOCATED ON OPPOSITE SIDES OF WALLS SHALL BE OFFSET A MINIMUM OF 24" HORIZONTALLY. THRU THE WALL BOXES SHALL NOT BE ALLOWED WITHOUT PRIOR WRITTEN APPROVAL OF THE ARCHITECT/ENGINEER.
 - FLUSH MOUNT ALL TOGGLE SWITCHES AT 4" FROM FLOOR (CENTERLINE DIMENSION), EXCEPT WHERE OTHERWISE NOTED. TOGGLE SWITCHES MAY BE SURFACE MOUNTED WHEN CONDUIT IS SPECIFIED EXPOSED.
 - FLUSH MOUNT ALL DUPLEX RECEPTACLES OUTLETS AT 18" FROM FLOOR (CENTERLINE DIMENSION), EXCEPT WHERE OTHERWISE NOTED. RECEPTACLES AND OUTLETS MAY BE SURFACE MOUNTED WHEN CONDUIT IS SPECIFIED EXPOSED.
 - INSTALL ALL WALL MOUNTED FIRE ALARM NOTIFICATION DEVICES AT 90" ABOVE FINISHED FLOOR OR 9" BELOW THE CEILING, WHICHEVER IS LOWER, EXCEPT WHERE OTHERWISE NOTED. HEIGHT SHALL BE MEASURED TO THE TOP OF THE DEVICE.
 - CONTRACTOR SHALL COORDINATE THE LOCATION OF ALL DETECTORS AND/OR BREAKERS WITH LUMINAIRES, SPRINKLERS, AND CEILING DIFFUSERS. CENTER ALL DEVICES IN CEILING. SMOKE DETECTORS SHALL BE LOCATED NO CLOSER THAN 3 FEET TO AN AIR SUPPLY DIFFUSER OR RETURN GRILLE.
 - ELECTRICAL EQUIPMENT SHALL BE MOUNTED TO AVOID IMPEDANCE OF OPERATION OF, AND/OR ACCESS TO ELECTRICAL AND MECHANICAL EQUIPMENT. ALL MOUNTING OF ELECTRICAL ON EQUIPMENT SUPPLIED BY ANOTHER CONTRACTOR SHALL BE APPROVED IN ADVANCE BY THE OTHER CONTRACTOR.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR ALL OPENINGS REQUIRED IN WALLS. ALL OPENINGS SHALL BE REPAIRED TO MATCH EXISTING BY A QUALIFIED CONTRACTOR AT THE EXPENSE OF THIS CONTRACTOR. ALL CONDUITS THROUGH WALLS SHALL BE GROUDED OR SEALED INTO OPENINGS.
 - ALL MATERIALS USED TO SEAL PENETRATIONS OF FIRE RATED WALLS AND FLOORS SHALL BE TESTED AND CERTIFIED AS A SYSTEM PER ASTM E84 STANDARDS FOR FIRE TESTS OF THROUGH-PENETRATION FIRESTOPPERS. REFER TO ARCHITECTURAL SPECIFICATIONS.
 - ALL WELDING SHALL BE ACCORDING TO AMERICAN WELDING SOCIETY STANDARDS. CONTRACTOR SHALL FURNISH TO THE ARCHITECT/ENGINEER CERTIFICATE QUALIFYING EACH WELDER, PRIOR TO START OF WORK. THE ARCHITECT/ENGINEER RESERVES THE RIGHT TO REQUIRE QUALIFYING DEMONSTRATION, AT THE CONTRACTOR'S EXPENSE, OF ANY WELDERS ASSIGNED TO THE JOB.
 - CONTRACTOR SHALL REMOVE AND REINSTALL ALL CEILING TILES AS REQUIRED FOR THE EXECUTION OF ELECTRICAL WORK THAT IS OUTSIDE THE CONTRACT LIMITS OF CONSTRUCTION. CONTRACTOR SHALL REPLACE CEILING TILES WITH IDENTICAL MATERIAL WHERE DAMAGED BY THIS CONTRACTOR.

- ELECTRICAL DEMOLITION NOTES**
- THE ELECTRICAL DRAWINGS INDICATE EXISTING ELECTRICAL ITEMS TO BE REMOVED. THE DRAWINGS ARE INTENDED TO INDICATE THE SCOPE OF WORK REQUIRED AND DO NOT INDICATE EVERY BOX, CONDUIT, OR WIRE THAT MUST BE REMOVED. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO SUBMITTING A BID AND VERIFY EXISTING CONDITIONS.
 - ELECTRICAL ITEMS (E.G. LIGHTING FIXTURES, RECEPTACLES, SWITCHES, ETC.) REMOVED AND NOT RELOCATED REMAIN THE PROPERTY OF THE OWNER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DISPOSAL OF MATERIAL THE OWNER DOES NOT WANT TO REUSE OR RETURN E.G. FOR MAINTENANCE PURPOSES.
 - THE CONTRACTOR SHALL OBTAIN APPROVAL FROM THE OWNER BEFORE TURNING OFF POWER TO CIRCUITS, FEEDERS, PANELS, ETC. COORDINATE ALL OUTAGES WITH OWNER. CONDUIT CONCEALED IN WALL. CONTRACTOR MAY BE ABANDONED IN PLACE IF NOT AFFECTED BY OTHER CONSTRUCTION. ALL WIRING ON ABANDONED CONDUIT MUST BE REMOVED.
 - WHERE LIGHTS, SWITCHES, RECEPTACLES, ETC. ARE BEING REMOVED ALL ASSOCIATED CONDUIT AND WIRE BACK TO THE PANELBOARD OR FEEDER JUNCTION BOX SERVING THE DEVICE SHALL ALSO BE REMOVED UNLESS THE CONDUIT CAN BE REUSED FOR NEW CONDUCTORS.
 - THIS CONTRACTOR SHALL COORDINATE ALL HIS WORK WITH OTHER CONTRACTORS AT THE JOB SITE BEFORE REMOVING EXISTING ELECTRICAL AND INSTALLING NEW ITEMS.
 - EXISTING CONDUIT IN GOOD CONDITION, MAY BE REUSED IN PLACE. RELOCATED EXISTING CONDUIT SHALL NOT BE ALLOWED. BONDING CONDUCTORS SHALL BE INSTALLED IN ALL REUSED CONDUIT TO ASSURE PROPER GROUND PATH.
 - EQUIPMENT REMOVAL IN CERTAIN LOCATIONS MAY REQUIRE THE INSTALLATION OF A JUNCTION BOX TO RECONNECT CIRCUITS THAT REMAIN IN OPERATION. EXTEND CONDUIT AND WIRING AS REQUIRED TO MAINTAIN POWER TO REMAINING EQUIPMENT.

SHEET LIST	
E-100	ELECTRICAL COVER SHEET
E-101	ELECTRICAL POWER AND SYSTEMS NEW WORK PLAN
E-102	ELECTRICAL BASEMENT AND ROOF NEW WORK PLAN
E-201	ELECTRICAL LIGHTING NEW WORK PLAN
E-401	ELECTRICAL SCHEDULES
E-601	ELECTRICAL EQUIPMENT SCHEDULE
ED-101	ELECTRICAL DEMOLITION PLAN

APPLICABLE CODES

CONTRACTOR SHALL COMPLY WITH APPLICABLE CODES AND LOCAL ORDINANCES.

NATIONAL ELECTRICAL CODE: NEC 2008 EDITION

NATIONAL FIRE CODE: 2006 EDITION

LIFE SAFETY CODE: NFPA 101 2006 EDITION

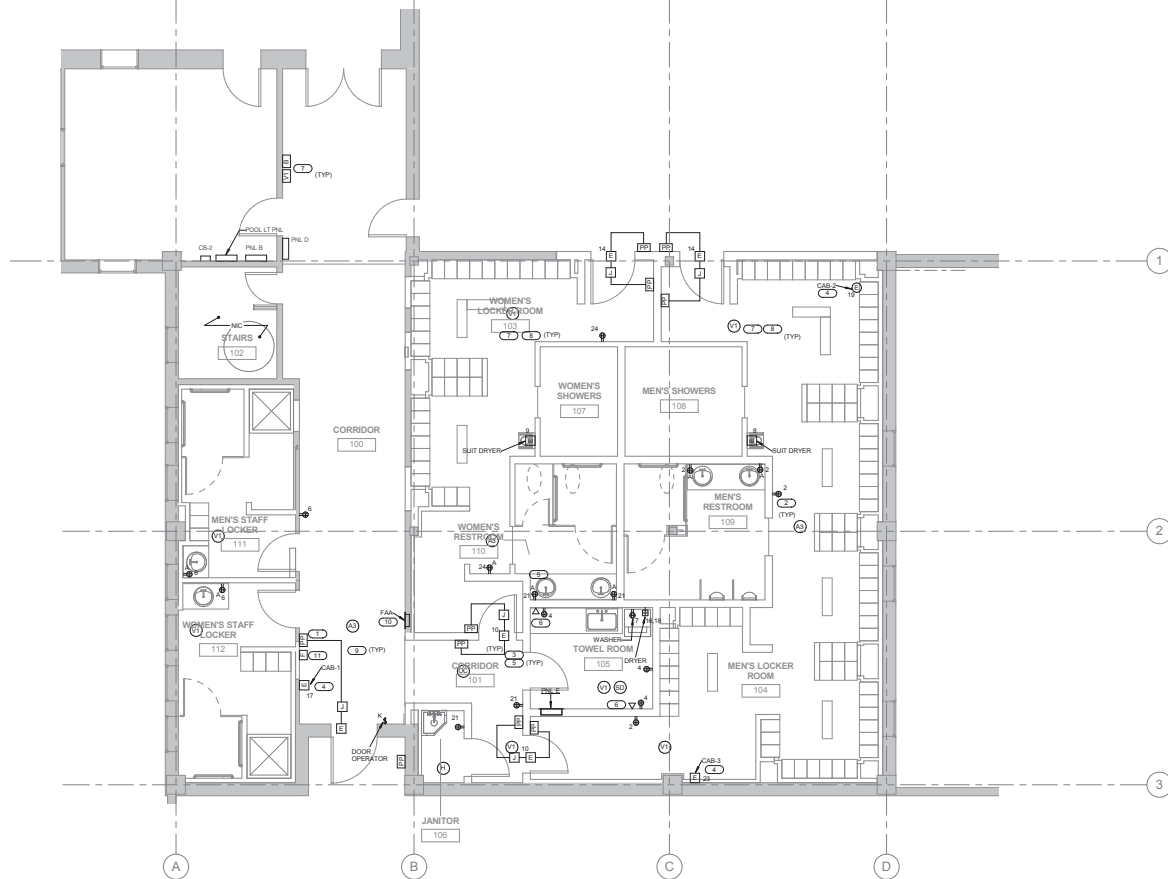
MODEL ENERGY CODE: IEEC 2006

V.A. STANDARD: CURRENT ISSUE

ILLINOIS BUILDING CODE: CURRENT ISSUE

VA FORM 08-6231				CONSULTANTS: KJWW ENGINEERING CONSULTANTS 2710 N. WILSON AVENUE CHICAGO, ILLINOIS 60640 TEL: 312.327.1140 FAX: 312.327.7079 WWW.KJWW.COM		ARCHITECT/ENGINEERS: COX DESIGN ASSOCIATES ARCHITECTURE PLANNING INTERIORS Austin 5121 Bay Coves Road, Suite 203 Austin, Texas 78746 512.327.3271 Chicago 345 N. Canal St. Suite 301 Chicago, IL 60605 312.499.3800 312.424.9439 hcoen@coxhd.com		Approved Assistant Director Approved Service Chief Approved Chief Bio-Med Approved Chief IT Approved Chief Safety		Approved Chief of Staff Approved Service Chief Approved Chief EMS Approved Chief Fire Approved Chief		Approved Chief Engineering Approved Service Chief Approved Chief Infection Control Approved Chief Police Approved Chief		Drawing Title ELECTRICAL COVER SHEET		Project Name RENOVATE MEN'S & WOMEN'S SHOWERS		Project Number 556-13-125		Office of Construction and Facilities Management Department of Veterans Affairs	
Expiration Date 12/31/2013		Structural/Mechanical/Electrical Technology/Medical Equipment Solution		Approved Chief of Staff Approved Service Chief Approved Chief EMS Approved Chief Fire Approved Chief		Approved Chief of Staff Approved Service Chief Approved Chief EMS Approved Chief Fire Approved Chief		Approved Chief of Staff Approved Service Chief Approved Chief EMS Approved Chief Fire Approved Chief		Approved Chief of Staff Approved Service Chief Approved Chief EMS Approved Chief Fire Approved Chief		Approved Chief of Staff Approved Service Chief Approved Chief EMS Approved Chief Fire Approved Chief		Approved Chief of Staff Approved Service Chief Approved Chief EMS Approved Chief Fire Approved Chief		Approved Chief of Staff Approved Service Chief Approved Chief EMS Approved Chief Fire Approved Chief		Approved Chief of Staff Approved Service Chief Approved Chief EMS Approved Chief Fire Approved Chief			
Building Number 132		Checked RHC		Drawn CAW		Design of		Drawing Number E-100		Date 17 APRIL 2013		Drawing Title ELECTRICAL COVER SHEET		Project Name RENOVATE MEN'S & WOMEN'S SHOWERS		Project Number 556-13-125		Office of Construction and Facilities Management Department of Veterans Affairs			

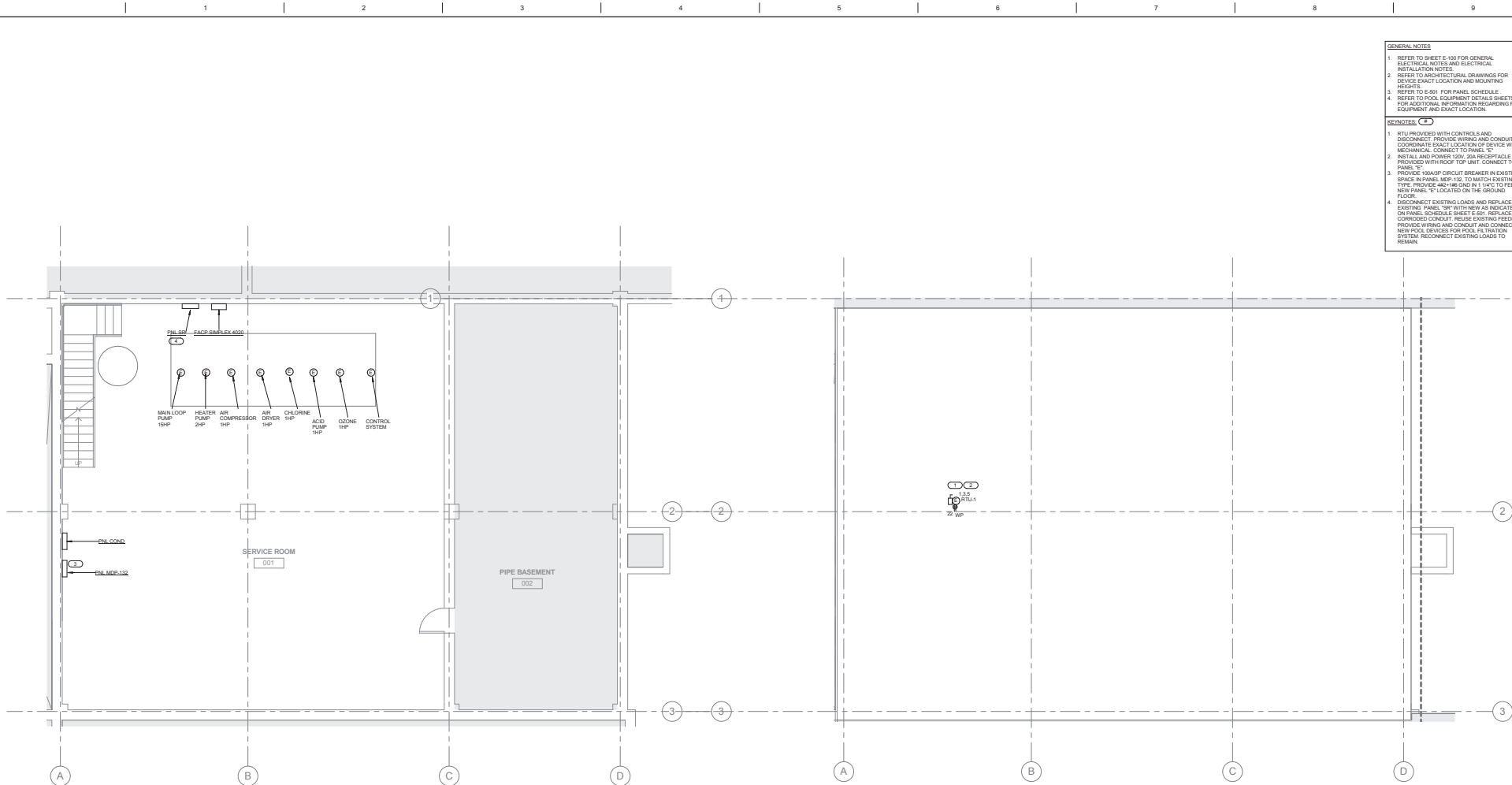
0' 1' 2' 3' 4' 5' 6' 7' 8' 9' 10' 11' 12' 13' 14' 15' 16' 17' 18' 19' 20' 21' 22' 23' 24' 25' 26' 27' 28' 29' 30' 31' 32' 33' 34' 35' 36' 37' 38' 39' 40' 41' 42' 43' 44' 45' 46' 47' 48' 49' 50' 51' 52' 53' 54' 55' 56' 57' 58' 59' 60' 61' 62' 63' 64' 65' 66' 67' 68' 69' 70' 71' 72' 73' 74' 75' 76' 77' 78' 79' 80' 81' 82' 83' 84' 85' 86' 87' 88' 89' 90' 91' 92' 93' 94' 95' 96' 97' 98' 99' 100'



- GENERAL NOTES**
1. REFER TO SHEET E-100 FOR GENERAL ELECTRICAL NOTES AND ELECTRICAL INSTALLATION NOTES.
 2. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION AND MOUNTING HEIGHTS.
 3. REFER TO E-201 FOR PANEL SCHEDULE.
 4. FOR DEMOLITION WORK REFER TO E-101.
 5. ALL NEW DEVICES SHALL BE POWERED FROM PANEL E UNLESS OTHERWISE NOTED.
 6. WIRING ASSOCIATED WITH FIRE ALARM SYSTEM SHALL BE INSTALLED IN CONDUIT SEPARATE FROM ANY OTHER SYSTEM.
- REVISIONS (C)**
1. REINSTALL PUSH PAD AND RECONNECT INTO THE DOOR OPENER. PROVIDE ALL WIRING AND CONDUIT REQUIRED FOR A COMPLETE AND FUNCTIONAL SYSTEM.
 2. PROVIDE RECEPTACLES WITH STAINLESS STEEL COVER PLATE.
 3. INSTALL ALL NEW DOOR OPENERS AND PUSH PADS. PROVIDE ALL WIRING AND CONDUITS AND MAKE ALL FINAL CONNECTIONS FOR A COMPLETE AND OPERATIONAL SYSTEM PER MANUFACTURER'S RECOMMENDATION.
 4. UNPROTECTED WIRING AND CONDUIT SHALL BE COVERED BY MANUFACTURER. INSTALL AND COORDINATE EXACT LOCATIONS, MOUNTING HEIGHTS, FOR ALL DEVICES AND EQUIPMENT WITH ARCHITECTURAL DRAWINGS PRIOR TO INSTALLATION.
 5. FOR TELEDATA PROVIDE BOXES AND EMPTY CONDUITS WITH PULL STRING, STUBBED UP ABOVE THE CORRIDOR CEILING.
 6. ALL FIRE ALARM VISUAL STROBES SHALL BE SYNCHRONIZED BY CIRCUIT AND AREA.
 7. FIRE ALARM DEVICES MOUNTED TO CEILING SHALL BE EASILY ACCESSIBLE FOR MAINTENANCE.
 8. ALL NEW FIRE ALARM DEVICES SHALL BE COMPATIBLE WITH EXISTING FIRE ALARM SYSTEM. PROVIDE NEW WIRING AND CONDUIT.
 9. RELOCATE FIRE ALARM ANNUNCIATOR PANEL. RECONNECT INTO THE EXISTING SYSTEM.
 10. PROVIDE ALL WIRING, CONDUIT PROGRAMMING AND TESTING.
 11. RELOCATE EXISTING MANUAL PULL STATION. RECONNECT INTO THE EXISTING SYSTEM. PROVIDE ALL WIRING AND CONDUIT AND PROGRAMMING FOR A COMPLETE FUNCTIONAL SYSTEM.

1 ELECTRICAL POWER & SYSTEMS PLAN
1/8" = 1'-0"

		CONSULTANTS: KJ ENGINEERING CONSULTANTS 2710 E. 12th Street Chicago, IL 60605 Tel: 773.327.1140 Fax: 773.327.1140 www.kjeng.com	ARCHITECT/ENGINEERS: COX DESIGN ASSOCIATES ARCHITECTURE PLANNING INTERIORS Austin 5121 Bee Caves Road, Suite 203 Austin, Texas 78746 Chicago 345 N. Canal St. Suite 301 Chicago, IL 60605 Tel: 312.327.4140 Fax: 312.327.7079 covecog@coxdesign.com	Approved: Assistant Director Approved: Service Chief Approved: Chief Bio-Med Approved: Chief IT Approved: Chief Safety	Approved: Chief of Staff Approved: Service Chief Approved: Chief EMS Approved: Chief MRO Approved: Chief	Approved: Chief, Engineering Approved: Service Chief Approved: Chief, Infection Control Approved: Chief, Police Approved: Chief	Drawing Title ELECTRICAL POWER & SYSTEMS PLAN C232559 JAMES A. LOVELL FHCC 3001 GREEN BAY ROAD NORTH CHICAGO, IL 60064	Project Name RENOVATE MEN'S & WOMEN'S SHOWERS Building Number 132 Checked RHC Drawn CAW	Project Number 556-13-125 DATE 17 APRIL 2013 Drawing Number E-101 Date of	Office of Construction and Facilities Management
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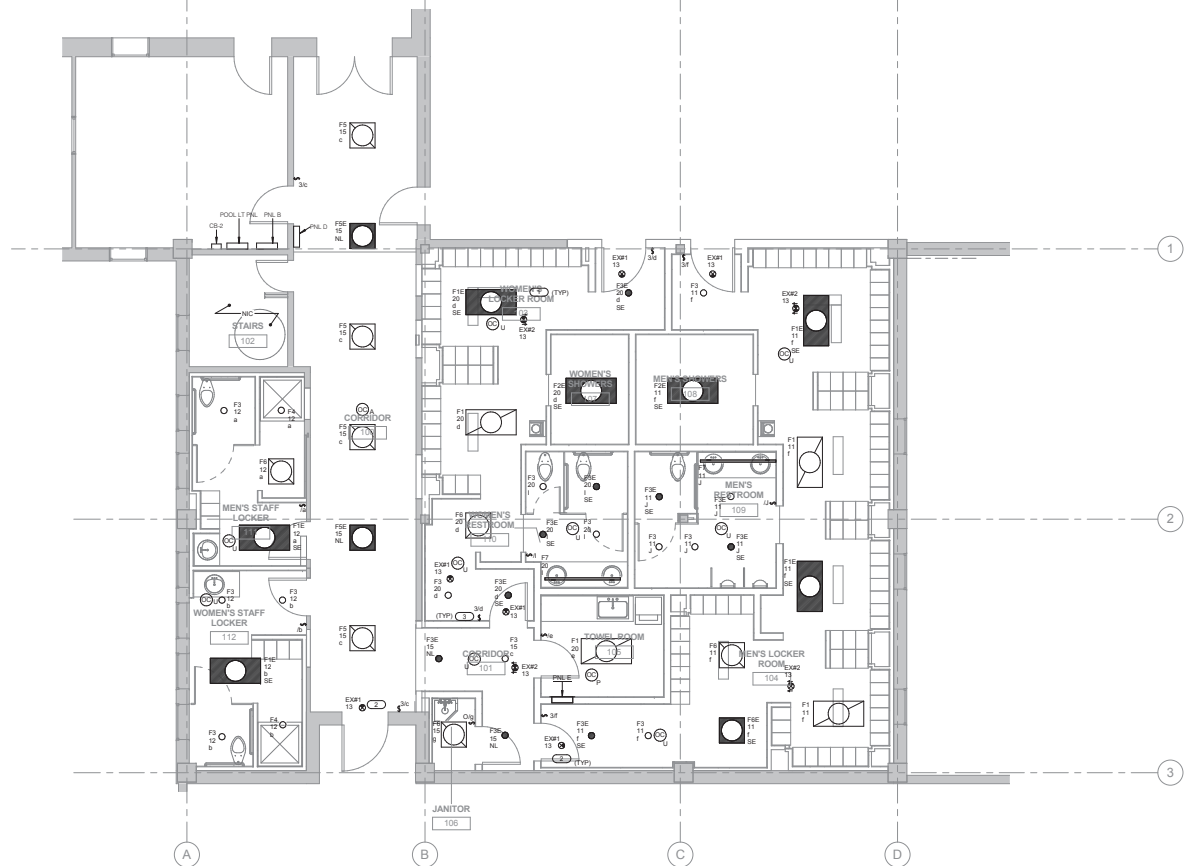
- GENERAL NOTES**
1. REFER TO SHEET E-100 FOR GENERAL ELECTRICAL NOTES AND ELECTRICAL INSTALLATION NOTES.
 2. REFER TO ARCHITECTURAL DRAWINGS FOR DEVICE EXACT LOCATION AND MOUNTING HEIGHTS.
 3. REFER TO E-501 FOR PANEL SCHEDULE.
 4. REFER TO POOL EQUIPMENT DETAILS SHEETS FOR ADDITIONAL INFORMATION REGARDING POOL EQUIPMENT AND EXACT LOCATION.
- REMARKS**
1. RTU PROVIDED WITH CONTROLS AND DISCONNECT. PROVIDE WIRING AND CONDUIT COORDINATE EXACT LOCATION OF DEVICE WITH MECHANICAL. CONNECT TO PANEL "T".
 2. INSTALL AND POWER 120V, 20A RECEPTACLE PROVIDED WITH ROOF TOP UNIT. CONNECT TO PANEL "T".
 3. PROVIDE 100A/2P CIRCUIT BREAKER IN EXISTING SPACE IN PANEL MEN 152. TO MATCH EXISTING TYPE. PROVIDE 48" H X 18" W X 1 1/4" D TO FEED NEW PANEL "T" LOCATED ON THE GROUND.
 4. DISCONNECT EXISTING LOADS AND REPLACE EXISTING PANEL "88" WITH NEW AS INDICATED ON PANEL SCHEDULE SHEET E-501. REPLACE CORRODED CONDUIT. REUSE EXISTING FEEDER. PROVIDE WIRING AND CONDUIT AND CONNECT NEW POOL DEVICES FOR POOL FILTRATION SYSTEM. RECONNECT EXISTING LOADS TO REMAIN.

1 ELECTRICAL BASEMENT PLAN
1/4" = 1'-0"

2 ELECTRICAL ROOF PLAN
1/4" = 1'-0"

		CONSULTANTS: KJWW ENGINEERING CONSULTANTS 227 E. LAMAR CHICAGO, ILLINOIS 60601 KANK 214-288-8888 www.kjww.com STRUCTURAL / MECHANICAL / ELECTRICAL TECHNOLOGY / MEDICAL EQUIPMENT SOLUTIONS		ARCHITECT/ENGINEERS: COX DESIGN ASSOCIATES ARCHITECTURE PLANNING INTERIORS Austin 5121 Bay Coves Road, Suite 203 Austin, Texas 78756 512-327-3277 (4149) 1-312-327-3277 (7679) coxdesign@austin.tx.us Chicago 345 N. Canal St. Suite 301 Chicago, IL 60605 312-499-3800 312-434-9439 hcoyle@coxna.com		<table><tr><td>Approved Assistant Director</td><td>Approved Chief of Staff</td><td>Approved Chief, Engineering</td></tr><tr><td>Approved Service Chief</td><td>Approved Service Chief</td><td>Approved Service Chief</td></tr><tr><td>Approved Chief Bio-Med</td><td>Approved Chief EMS</td><td>Approved Chief, Infection Control</td></tr><tr><td>Approved Chief IT</td><td>Approved Chief MRO</td><td>Approved Chief, Police</td></tr><tr><td>Approved Chief Safety</td><td>Approved Chief</td><td>Approved Chief</td></tr></table>		Approved Assistant Director	Approved Chief of Staff	Approved Chief, Engineering	Approved Service Chief	Approved Service Chief	Approved Service Chief	Approved Chief Bio-Med	Approved Chief EMS	Approved Chief, Infection Control	Approved Chief IT	Approved Chief MRO	Approved Chief, Police	Approved Chief Safety	Approved Chief	Approved Chief	<table><tr><td colspan="2">Drawing Title ELECTRICAL BASEMENT & ROOF PLAN</td><td colspan="2">Project Name RENOVATE MEN'S & WOMEN'S SHOWERS</td><td colspan="2">Project Number 556-13-125</td></tr><tr><td colspan="2">222859 JAMES A. LOVELL FHCC 3001 GREEN BAY ROAD NORTH CHICAGO, IL 60064</td><td colspan="2">Building Number 132</td><td>Checked RHC</td><td>Drawn CAW</td></tr><tr><td colspan="2"></td><td colspan="2">Date 17 APRIL 2013</td><td colspan="2">Drawing Number E-102</td></tr></table>		Drawing Title ELECTRICAL BASEMENT & ROOF PLAN		Project Name RENOVATE MEN'S & WOMEN'S SHOWERS		Project Number 556-13-125		222859 JAMES A. LOVELL FHCC 3001 GREEN BAY ROAD NORTH CHICAGO, IL 60064		Building Number 132		Checked RHC	Drawn CAW			Date 17 APRIL 2013		Drawing Number E-102		<table><tr><td colspan="2">Office of Construction and Facilities Management</td></tr><tr><td colspan="2">Department of Veterans Affairs</td></tr></table>		Office of Construction and Facilities Management		Department of Veterans Affairs	
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0' 1' 2' 3' 4' 5' 6' 7' 8' 9' 10' 11' 12' 13' 14' 15' 16' 17' 18' 19' 20' 21' 22' 23' 24' 25' 26' 27' 28' 29' 30' 31' 32' 33' 34' 35' 36' 37' 38' 39' 40' 41' 42' 43' 44' 45' 46' 47' 48' 49' 50' 51' 52' 53' 54' 55' 56' 57' 58' 59' 60' 61' 62' 63' 64' 65' 66' 67' 68' 69' 70' 71' 72' 73' 74' 75' 76' 77' 78' 79' 80' 81' 82' 83' 84' 85' 86' 87' 88' 89' 90' 91' 92' 93' 94' 95' 96' 97' 98' 99' 100'














1 ELECTRICAL LIGHTING PLAN
1/4" = 1'-0"

- GENERAL NOTES:**
1. REFER TO SHEET E-100 FOR GENERAL ELECTRICAL NOTES AND ELECTRICAL INSTALLATION NOTES.
 2. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION AND MOUNTING HEIGHTS.
 3. REFER TO E-601 FOR PANEL SCHEDULE.
 4. REFER SHEET E-601 FOR LUMINAIRE SCHEDULE.
 5. THE ELECTRICAL CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND REPORT CONFLICTS TO THE ARCHITECT/ENGINEER PRIOR TO THE START OF WORK.
 6. ALL FIXTURES AND DEVICES IN THIS AREA WILL BE FIELD FROM PANEL E UNLESS OTHERWISE NOTED.
- KEYNOTES:**
1. ALL OCCUPANCY SENSORS IN A ROOM/AREA SHALL CONTROL ALL SWITCHED LIGHTING FIXTURES IN THE AREA. LOCATION OF OCCUPANCY SENSORS SHALL BE FIELD COORDINATED PER MANUFACTURER'S RECOMMENDATION. PROVIDE ALL WIRING AND CONDUIT.
 2. PROVIDE WIRING AND CONDUIT AS NEEDED FOR NEW BATTERY OPERATED EXIT SIGNS.
 3. REPLACING EXISTING LIGHTING SWITCHES TO BE USED AS OVERIDE FOR ALL OCCUPANCY SENSORS. LOCATION OF SWITCHES MOUNTED ON WALL SHALL BE COORDINATED WITH ARCHITECT PRIOR TO ANY FLOORING.

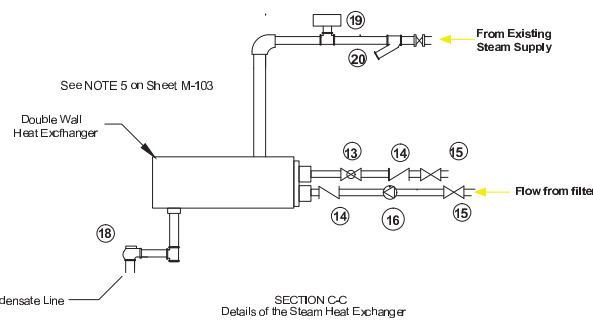
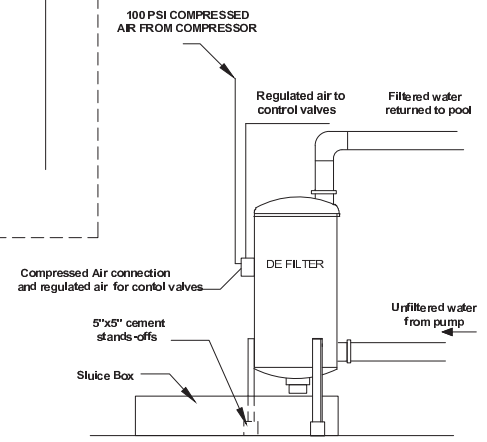
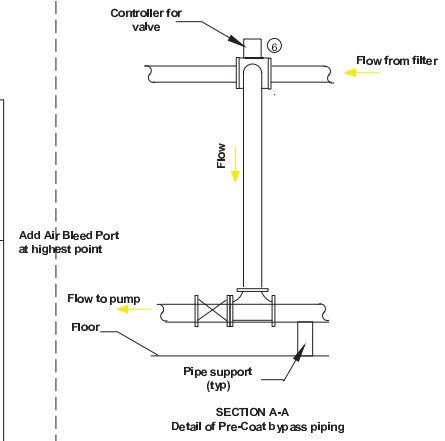
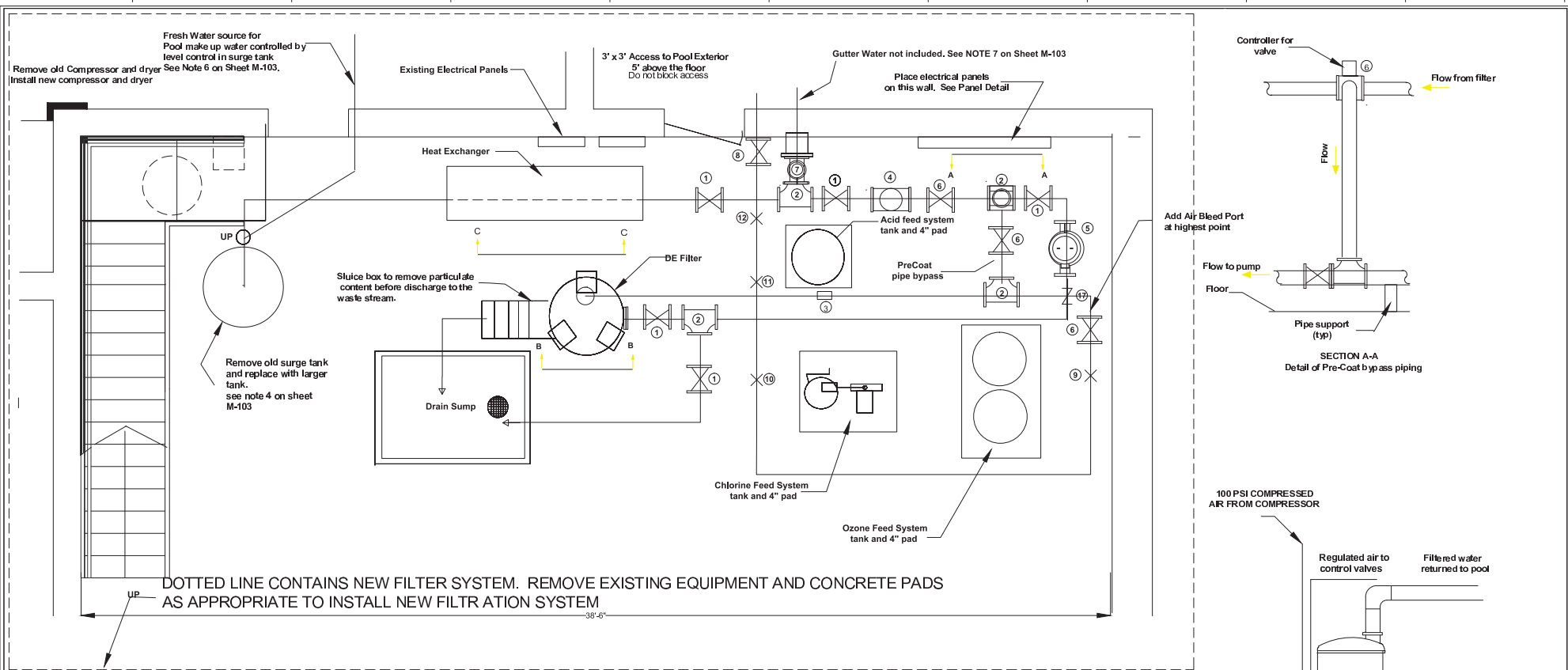
		CONSULTANTS: KJWW ENGINEERING CONSULTANTS 2710 E. 12th Street Chicago, IL 60605 Tel: 773.327.7070 Fax: 773.327.7071 www.kjww.com	ARCHITECT/ENGINEERS: COX DESIGN ASSOCIATES ARCHITECTURE PLANNING INTERIORS 5121 Bee Caves Road, Suite 203 Austin, Texas 78746 345 N. Canal St. Suite 701 Chicago, IL 60605 Tel: 312.327.4140 Tel: 312.327.7070 Fax: 312.424.9439 covey@coxdesign.com	Approved: Assistant Director Approved: Service Chief Approved: Chief Bio-Med Approved: Chief IT Approved: Chief Safety	Approved: Chief of Staff Approved: Service Chief Approved: Chief EMS Approved: Chief MRO Approved: Chief	Approved: Chief, Engineering Approved: Service Chief Approved: Chief, Infection Control Approved: Chief, Police Approved: Chief	Drawing Title ELECTRICAL LIGHTING PLAN	Project Name RENOVATE MEN'S & WOMEN'S SHOWERS	Project Number 556-13-125 DATE: 17 APRIL 2013	Drawing Number E-201 Date: of	Office of Construction and Facilities Management
Revisions:							Building Number 132	Checked RHC	Drawn CAW		

LUMINAIRE SCHEDULE												
(MOUNTING):	(TYPE) LAMP TECHNOLOGY:					(BA) LUMINOUS:						
	RE - RECESSED	FL - FLUORESCENT	LED - LIGHT EMITTING DIODE	HE - HIGH PRESSURE SODIUM	HM - METAL HALIDE	A - 100 ACVOLT	B - BLACK BENTON	C - CLEAR ALUM	D - TRANSPARENT	E - FROSTED	F - TRANSPARENT SLABS	G - TRANSPARENT SLATS
(FINISH):	SP - SUSPENDED	CF - COMPACT FLUORESCENT	LED - LIGHT EMITTING DIODE	HE - HIGH PRESSURE SODIUM	HM - METAL HALIDE	EM - EMERGENCY BATTERY BALLAST	EM - EMERGENCY BATTERY BALLAST	EM - EMERGENCY BATTERY BALLAST	EM - EMERGENCY BATTERY BALLAST	EM - EMERGENCY BATTERY BALLAST	EM - EMERGENCY BATTERY BALLAST	EM - EMERGENCY BATTERY BALLAST
	OS - CEILING SURFACE	FL - FLUORESCENT	LED - LIGHT EMITTING DIODE	HE - HIGH PRESSURE SODIUM	HM - METAL HALIDE	EM - EMERGENCY BATTERY BALLAST	EM - EMERGENCY BATTERY BALLAST	EM - EMERGENCY BATTERY BALLAST	EM - EMERGENCY BATTERY BALLAST	EM - EMERGENCY BATTERY BALLAST	EM - EMERGENCY BATTERY BALLAST	EM - EMERGENCY BATTERY BALLAST
(DOOR):	UL - UNDER CABINET	CF - COMPACT FLUORESCENT	LED - LIGHT EMITTING DIODE	HE - HIGH PRESSURE SODIUM	HM - METAL HALIDE	EM - EMERGENCY BATTERY BALLAST	EM - EMERGENCY BATTERY BALLAST	EM - EMERGENCY BATTERY BALLAST	EM - EMERGENCY BATTERY BALLAST	EM - EMERGENCY BATTERY BALLAST	EM - EMERGENCY BATTERY BALLAST	EM - EMERGENCY BATTERY BALLAST
	FL - FLUORESCENT	FL - FLUORESCENT	LED - LIGHT EMITTING DIODE	HE - HIGH PRESSURE SODIUM	HM - METAL HALIDE	EM - EMERGENCY BATTERY BALLAST	EM - EMERGENCY BATTERY BALLAST	EM - EMERGENCY BATTERY BALLAST	EM - EMERGENCY BATTERY BALLAST	EM - EMERGENCY BATTERY BALLAST	EM - EMERGENCY BATTERY BALLAST	EM - EMERGENCY BATTERY BALLAST
(FINISH):	FL - FLUORESCENT	FL - FLUORESCENT	LED - LIGHT EMITTING DIODE	HE - HIGH PRESSURE SODIUM	HM - METAL HALIDE	EM - EMERGENCY BATTERY BALLAST	EM - EMERGENCY BATTERY BALLAST	EM - EMERGENCY BATTERY BALLAST	EM - EMERGENCY BATTERY BALLAST	EM - EMERGENCY BATTERY BALLAST	EM - EMERGENCY BATTERY BALLAST	EM - EMERGENCY BATTERY BALLAST
	FL - FLUORESCENT	FL - FLUORESCENT	LED - LIGHT EMITTING DIODE	HE - HIGH PRESSURE SODIUM	HM - METAL HALIDE	EM - EMERGENCY BATTERY BALLAST	EM - EMERGENCY BATTERY BALLAST	EM - EMERGENCY BATTERY BALLAST	EM - EMERGENCY BATTERY BALLAST	EM - EMERGENCY BATTERY BALLAST	EM - EMERGENCY BATTERY BALLAST	EM - EMERGENCY BATTERY BALLAST
CATALOG NUMBER SHALL NOT BE CONSIDERED COMPLETE AND MATERIAL SHALL NOT BE ORDERED BY MANUFACTURER AND CATALOG NUMBER ONLY THE COMPLETE DESCRIPTION AND THE SPECIFICATION SHALL BE COORDINATED WITH THE CATALOG NUMBER TO DETERMINE THE EXACT MATERIAL AND ACCESSORIES TO BE ORDERED. THE FIRST MANUFACTURER LISTED IS THE BASIS FOR DESIGN.												
REFER TO SPECIFICATION SECTIONS LIGHTING 28.51.00 FOR ADDITIONAL INFORMATION AND REQUIREMENTS.												
ALL LAMPS FOR THIS PROJECT SHALL BE FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR UNLESS OTHERWISE NOTED. PROVIDE ELECTRONIC PROGRAMMED START BALLAST FLUORESCENT LAMP CORRELATED COLOR TEMPERATURE 3500°. COLOR RENDERING INDEX (CRI) AT OR ABOVE 80, UNLESS NOTED OTHERWISE.												
ITEM	DESCRIPTION	DIMENSIONS				LAMP				BALLAST		
		L	W	H	MTS	QTY	MODEL	VOLTS	TYPE	LA	APPROVED MANUFACTURER	
F1	RECESSED DMF WITH FLUSH ALUMINUM DOOR, WHITE, ACRYLIC DIFFUSER, FOR DAMP LOCATION, FOR DRYWALL CEILING	48"	24"	4.5"	0.0	FL	2	32WATT	120V	ES	A	LEUCHOW 2WRT F22 A1215
F10	RECESSED DMF WITH FLUSH ALUMINUM DOOR, WHITE, ACRYLIC DIFFUSER, EMERGENCY BATTERY PACK, FOR DAMP LOCATION AND DRYWALL CEILING	48"	24"	4.5"	0.0	FL	2	32WATT	120V	ES	A	LEUCHOW 2WRT F22 A1215
F18	RECESSED DMF WITH FLUSH ALUMINUM DOOR, WHITE, ACRYLIC DIFFUSER, EMERGENCY BATTERY PACK, FOR DAMP LOCATION AND DRYWALL CEILING	48"	24"	4.5"	0.0	FL	2	32WATT	120V	ES	A	LEUCHOW 2WRT F22 A1215
F2	4" COMPACT FLUORESCENT LENSED DOWNLIGHT, HORIZONTAL, TRIPLE TUBE LAMP, FOR DAMP LOCATIONS AND DRYWALL CEILING			10"	0"	CF	1	29W	120V	ES	A	LEUCHOW 2WRT F22 A1215
F10	4" COMPACT FLUORESCENT LENSED DOWNLIGHT, HORIZONTAL, TRIPLE TUBE LAMP, EMERGENCY BATTERY PACK, FOR DAMP LOCATIONS AND DRYWALL CEILING			10"	0"	CF	1	29W	120V	ES	A	LEUCHOW 2WRT F22 A1215
F4	4" COMPACT FLUORESCENT LENSED DOWNLIGHT, HORIZONTAL, LAMP, WET LOCATION, FOR DRYWALL CEILING			10"	0"	CF	1	29W	120V	ES	P	LEUCHOW 2WRT F22 A1215
F5	RECESSED STATIC GRID TROFFER WITH PS DOOR, ACRYLIC DIFFUSER, FOR TILE CEILING	24"	24"	4.5"	0.0	FL	2	17WATT	120V	ES	A	LEUCHOW 2WRT F22 A1215
F18	RECESSED STATIC GRID TROFFER WITH PS DOOR, ACRYLIC DIFFUSER, EMERGENCY BATTERY PACK, FOR TILE CEILING	24"	24"	4.5"	0.0	FL	2	17WATT	120V	ES	A	LEUCHOW 2WRT F22 A1215
F18	RECESSED STATIC FLANGED TROFFER WITH ALUMINUM DOOR, ACRYLIC DIFFUSER, FOR DAMP LOCATION AND DRYWALL CEILING	24"	24"	4.5"	0.0	FL	2	17WATT	120V	ES	A	LEUCHOW 2WRT F22 A1215
F18	RECESSED STATIC FLANGED TROFFER WITH ALUMINUM DOOR, ACRYLIC DIFFUSER, EMERGENCY BATTERY PACK, FOR DAMP LOCATION AND DRYWALL CEILING	24"	24"	4.5"	0.0	FL	2	17WATT	120V	ES	A	LEUCHOW 2WRT F22 A1215
F17	LOW PROFILE STAGGERED STRIP LIGHT WALL MOUNTED, COORDINATE LENGTH INDICATING WITH ARCHITECTURAL DETAILS	6"	2.0"	1.0"	0.0	FL	2	32WATT	120V	ES	N	LEUCHOW 2WRT F22 A1215
F21	DOUBLE-PIN EXIST ROOM, WHITE THERMOPLASTIC BODY, RED LETTERS, EMERGENCY BATTERY PACK, FOR DAMP LOCATION AND DRYWALL CEILING	12"	24"	0.0"	0.0	FL	1	32WATT	120V	ES	O	LEUCHOW 2WRT F22 A1215
F22	DOUBLE-PIN EXIST ROOM, WHITE THERMOPLASTIC BODY, RED LETTERS, EMERGENCY BATTERY PACK, FOR DAMP LOCATION AND DRYWALL CEILING	12"	24"	0.0"	0.0	FL	1	32WATT	120V	ES	O	LEUCHOW 2WRT F22 A1215

CONSULTANTS:  KJW ENGINEERING CONSULTANTS 5201 West Broadway Brookings Park, MN 55440 Tel: 763.233.9813 Fax: 763.233.9813		ARCHITECT/ENGINEERS:  COX DESIGN ASSOCIATES ARCHITECTURE PLANNING INTERIORS 5121 Bay Caves Road, Suite 203 Austin, Texas 78756 Tel: 512.327.4140 Fax: 512.327.4140		Approved Assistant Director Approved Service Chief Approved Chief Bio-Med Approved Chief IT Approved Chief Safety		Approved Chief of Staff Approved Service Chief Approved Chief EMS Approved Chief MBO Approved Chief		Approved Chief Engineering Approved Service Chief Approved Chief Infection Control Approved Chief Police Approved Chief		Drawing Title ELECTRICAL SCHEDULES Drawing Number 023509 JAMES A. LOVELL FHCC 3001 GREEN BAY ROAD NORTH CHICAGO, IL 60064		Project Name RENOVATE MEN'S & WOMEN'S SHOWERS Project Number 556-13-125 Date 17 APRIL 2013 Drawing Number E-401 Building Number 132 Checked RHC Drawn CAW Date of		Office of Construction and Facilities Management Department of Veterans Affairs	
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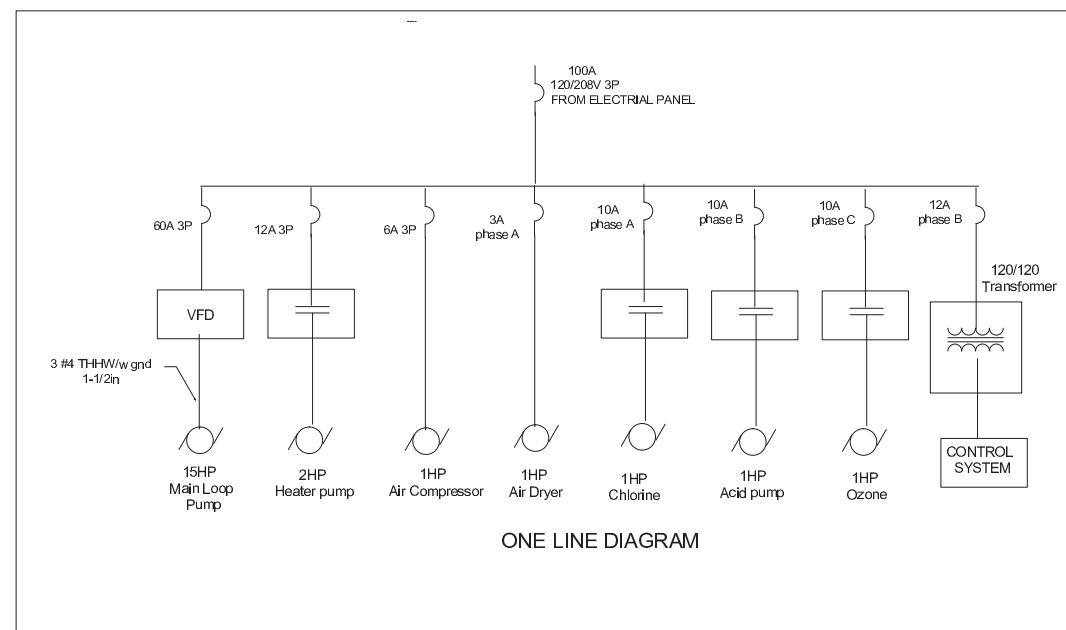
10		RECEIPTABLE, GROUND FAULT DUPLEX, 125 VOLT, 20 AMP, 3 WIRE, GROUNDING TYPE, N.E.M.A. 5-20, TEST AND RESET BUTTONS IN IMPACT RESISTANT THERMOPLASTIC FACE.	HURELL, QF20L LEVITON 7669 PASS A SEYMOUR COOPER V6040
11		ELECTRICAL CONNECTION TO EQUIPMENT AND MOTOR, SIZE PER N.E.C. COORDINATE REQUIREMENTS WITH CONTRACTOR'S WIRING SPECIFIC TO MOTOR. SEE SPECIFICATIONS AND GENERAL INSTALLATION NOTES FOR TERMINATIONS TO MOTOR.	SEE SPECIFICATIONS
12		JUNCTION BOX, SIZE PER N.E.C. REFER TO SPECIFICATIONS FOR GENERAL CONSTRUCTION. USE OF THIS SYMBOL DOES NOT INDICATE ALL JUNCTION BOXES REQUIRED FOR THIS CONTRACT ARE SHOWN.	REFER TO SPECIFICATIONS
13		PANELBOARD, RECESSED MOUNT, 208/120 VOLT, 3 PHASE, 4 WIRE, 80, GROUND BUS, COPPER BUS, BOLT-TIGHT BREAKERS, NEMA-EN ENCLOSURE, REFER TO SCHEDULES B-50 AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.	SQUARE D NO GENERAL ELECTRIC AC SCENERY P1 OUTLETHAMMER P101
14		PANELBOARD, SURFACE MOUNT, 208/120 VOLT, 3 PHASE, 4 WIRE, 80, GROUND COPPER BUS, BOLT-TIGHT BREAKERS, NEMA-EN ENCLOSURE, REFER TO SCHEDULES A FOR SIZE AND CONFIGURATION. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.	SQUARE D NO GENERAL ELECTRIC AC SCENERY P1 OUTLETHAMMER P101
15		FIRE ALARM ANNUNCIATOR PANEL, POWERED FROM FIRE ALARM CONTROL PANEL, RECESSED MOUNT. SEE SPECIFICATIONS FOR COMPLETE REQUIREMENTS.	SIMPLEX EXISTING TO BE REINSTALLED
16		FIRE ALARM ADDITIONAL NOTIFICATION APPLIANCE, FLUSH CEILING MOUNT (PROVIDE THE BRIDGE WIRELINE APPLICABLE), WHITE WITH RED LETTERING ON PICTOGRAM, 25 VIBRMS MINIMUM OF A TAP SETTINGS WHICH SHALL ALLOW FIELD ADJUSTMENT OF THE SOUND OUTPUT ACROSS A MINIMUM RANGE OF 78-87 DBA (IN 1400), 400HZ-400HZ (80BA CUTOFF) FREQUENCY RANGE.	SIMPLEX COMPATIBLE WITH EXISTING SYSTEM
17		CANDELA RATINGS: A1-H15, A3-H20, A7-H25, A9-H45 FIRE ALARM CEILING VISUAL NOTIFICATION APPLIANCE, HIGH INTENSITY STROBE, WHITE WINGING WITH RED LETTERING OR PICTOGRAM, SIM-FLUSH CEILING MOUNT, 24 VDC.	SIMPLEX COMPATIBLE WITH EXISTING SYSTEM
18		CANDELA RATINGS: V1-H15, V3-H20, V7-H25, V9-H45, V15-H77, CANDELA RATING SHALL BE VISIBLE FROM THE OUTSIDE OF THE DEVICE.	

VA FORM 08-6231



- 1 6X6 Gate valves to drain water directs water to filter or to sump
- 2 6x6x6 Tee
- 3 Flow meter
- 4 6x6 Lint and Hair strainer
- 5 12 hp in-line pump 400 gpm 80ft head.
- 6 Pneumatically controlled butterfly valves for filter pre-coat cycle
- 7 Existing 6" gate valve, unfiltered water from pool
- 8 Existing 4" gate valve filtered and treated water to return to pool
- 9 Ozone feeds into this area of the pipe
- 10 Chlorine feeds into this area of the pipe
- 11 Acid feeds into this area of the pipe
- 12 Heat exchanger connections here.
- 13 2 1/2" Balance cock to control flow and head of water in heater loop
- 14 2 1/2" Check valve
- 15 2 1/2" Isolation valve to permit taking heater out of service.
- 16 2 1/2" Pump 80 gpm 40' head
- 17 6" Check valve to prevent back flow through main pump
- 18 Steam Trap
- 19 Controlled pneumatic steam valve
- 20 Steam strainer

Revisions Date		CONSULTANTS: 5201 West Broadway Brooklyn Park, MN 55445 Tel: 763.435.8813 Fax: 763.435.7929	ARCHITECT/ENGINEERS: COX DESIGN ASSOCIATES ARCHITECTURE PLANNING INTERIORS Austin 5121 Bee Caves Road, Suite 203 Austin, Texas 78746 Chicago 345 N. Canal St., Suite 301 Chicago, IL 60605 Tel: 512.327.4140 Fax: 512.434.8439 coxdesign@austin.az.com	Approved: Assistant Director Approved: Service Chief Approved: Chief, Bio-Med Approved: Chief, IT Approved: Chief, Safety	Approved: Chief of Staff Approved: Service Chief Approved: Chief, EMS Approved: Chief, MRO Approved: Chief	Approved: Chief, Engineering Approved: Service Chief Approved: Chief, Infection Control Approved: Chief, Pikes Approved: Chief	Drawing Title: POOL FILTER SYSTEM LAYOUT Location: JAMES A. LOVELL FHCC 3001 GREEN BAY ROAD NORTH CHICAGO, IL 60064	Project Name: RENOVATE MEN'S AND WOMEN'S SHOWERS & REPLACE POOL FILTER Building Number: 132 Checked: CKM Drawn: GWW	Project Number: 556-13-125 Date: 17 APRIL 2013 Drawing Number: XJ-101 Dep. of	Office of Construction and Facilities Management
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POOL FILTRATION EQUIPMENT SCHEDULE					
NUM	ITEM	CAPACITY	POWER	SERVICE	PAD SIZE *
1	MAIN FILTER	400 gpm	n/a	n/a	7'x7'
2	SURGE TANK	900 gal	n/a	n/a	5'x5'
3	LOOP PUMP	400 gpm 80' head	15 hp	208V 3P 60A	4'x2'4"
4	HAIR STRAINER	8"	n/a	n/a	2'x2'
5	FLOW METER	400 gpm	n/a	n/a	n/a
6	ACID DISPENSER		1/2 hp	120V 1P 10A	3'x3'
7	CHLORINE TREATMENT		1 hp	120V 1P 10A	4'X3'
8	OZONE TREATMENT		1 hp	120V 1P 10A	12'x3'
9	AIR COMPRESSOR	100psi 30 gal	1 hp	208V 3P 6A	3'x3'
10	AIR DRYER		1/6 hp	208V 3P 3A	
11	HEAT EXCHANGER	MIN 400,000 btuh	n/a	n/a	n/a
12	HOT WATER PUMP	80 gpm	2 hp	208V 3P 60A	n/a
13	ELECTRONIC CONTROLLER			120V 1P 12A	
14	TRANSFORMER	120/120	2kw		
15	3 P CONTACTOR		15A		
16	1 P CONTACTOR (3 EA)		10A		

* APPROXIMATE PAD SIZE IS SHOWN. EQUIPMENT PADS SHALL BE 4" HIGH. ALL EQUIPMENT FASTENING BOLTS SHALL LAG BY 1-1/2" INTO THE CONCRETE FLOOR BELOW THE PAD..

NOTE 5: PROVIDE BALANCE VALVE FOR SIDESTREAM HEATER SYSTEM FOR POOL WATER, AS THIS HEATED WATER RE-ENTERS THE STREAM TO GO BACK INTO THE POOL. THIS BALANCE VALVE SHALL BE ADJUSTED SO THAT POSITIVE FLOW THROUGH THE HEAT EXCHANGER OCCURS UNDER ALL TYPICAL OPERATING REGIMES OF THE MAIN POOL FILTER CIRCULATION PUMP WITH ITS VSD.

NOTE 6: FRESH WATER SUPPLY SHALL BE CONNECTED TO THE EXISTING FRESH WATER MAKE-UP LINE AND THE PIPE SHALL BE RUN THROUGH A MAKE-UP WATER CONTROL VALVE TO THE TOP OF THE SURGE TANK. THE MAKE-UP WATER CONTROL VALVE SHALL BE CONTROLLED FROM THE SYSTEM CONTROLLER BASED ON THE LEVEL OF THE WATER IN THE SURGE TANK USING APPROPRIATE CONTROL SOFTWARE. THIS FEATURE SHALL BE INCLUDED WITH THE POOL SYSTEM ENERGY MANAGEMENT CONTROLLER.

NOTE 7: THE DESIGN OF A NEW WATER CAPTURE SYSTEM FOR THE GUTTER WATER WAS CONSIDERED OUT OF SCOPE FOR THE PRESENT PROJECT. IT IS SUGGESTED THAT THE GUTTER WATER BE COLLECTED IN A STORAGE TANK AND PUMPED WITH A SUMP PUMP TO DISCHARGE, ALONG WITH MAKE-UP WATER, INTO THE TOP OF THE SURGE TANK.

SEQUENCE OF OPERATIONS

WATER FROM POOL COMES THROUGH THE MAIN VALVE AND GOES INTO A TEE. ONE BRANCH GOES THROUGH A NEW 6" LINE INTO THE BOTTOM OF THE SURGE TANK. ATMOSPHERIC PRESSURE MAKES THE LEVEL OF THE WATER IN THE POOL THE SAME AS THE LEVEL OF THE WATER IN THE SURGE TANK. A LEVEL METER ON THE SURGE TANK CONTROLS THE AMOUNT OF MAKE UP WATER THAT IS INTRODUCED AT THE TOP OF THE SURGE TANK.




A SECOND BRANCH FROM THE TEE DIRECTS WATER THROUGH A 6" PIPE TO THE HAIR AND LINT STRAINER AND INTO THE MAIN LOOP PUMP. THE PUMP FORCES WATER THROUGH THE MAIN FILTER. A FLOW METER PROVIDES INFORMATION TO THE SYSTEM CONTROLLER TO CONTROL THE SPEED OF THE VSD AND PUMP. A PORTION OF THE WATER IS PUMPED BY A SMALL PUMP THROUGH A STEAM TO WATER HEAT EXCHANGER. TEMPERATURE OF THE WATER LEAVING THE HEAT EXCHANGER IS CONTROLLED BY A VALVE THAT CONTROLS THE AMOUNT OF STEAM ENTERING THE HEAT EXCHANGER SO AS TO MAINTAIN A CONSTANT SET POINT OF RETURN WATER TEMPERATURE. THE WATER RECEIVES CHEMICAL TREATMENT FROM THE OZONE UNIT, THE CHLORINATOR UNIT AND THE ACID TREATMENT.

NOTE 1: MINIMUM OF FIVE (5) STRAIGHT UNOBSTRUCTED PIPE DIAMETERS ARE REQUIRED BEFORE AND AFTER THE FLOW METER.. RECONFIGURE PIPING AS NECESSARY TO COMPLY.

NOTE 2: CONTACTORS IN THE SWITCH-GEAR ARE TO BE AUTOMATICALLY CONTROLLED BY THE SYSTEM CONTROLLER TO SHUT OFF POWER TO THE HEAT AND CHEMICAL FEEDERS WHILE THE MAIN FILTER IS SERVICED.

NOTE 3: THE SYSTEM CONTROLLER WILL HAVE A 120/120 VOLT ISOLATION TRANSFORMER TO REDUCE INTERFERENCE FROM THE POWER GLITCHES GENERATED BY THE VFD. ELECTRICAL PANELS, CONTACTORS, VFD, TRANSFORMER AND THE SYSTEM CONTROLLER ARE TO BE MOUNTED ON THE EXISTING WALL SECTION AS SHOWN ON DRAWING M-101. SEE PANEL INTERCONNECTION LAYOUT ON DETAIL SHEET M-102.

NOTE 4: NEW SURGE TANK SHALL BE INSTALLED. ALL PIPING, ELECTRICAL, FITTINGS, AND OTHER DEVICES IN THE VICINITY OF THE VERTICAL OPENING FOR THIS STRUCTURE SHALL BE RELOCATED AS REQUIRED, IN ORDER TO FIT THE NEW SURGE TANK INTO THE AVAILABLE OPENING AREA. ALL SUCH RELOCATIONS WHICH SHALL REQUIRE SHUTDOWNS SHALL FIRST BE TABULATED IN WRITING, SUBMITTED TO THE VA COTR, AND HAVE OBTAINED WRITTEN APPROVAL PRIOR TO SUCH RELOCATION. CONTRACTOR SHALL RELOCATE MINIMUM DISTANCES FROM CURRENT POSITION AS REQUIRED TO ACCOMMODATE THE NEW SURGE TANK, AND ITS SUPPORTING STRUCTURE.

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